UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

MEMORANDUM

DATE: 12/14/2020

SUBJECT: **Propiconazole:** Acute and Chronic Aggregate Dietary (Food and Drinking Water) Exposure and Risk Assessments for the Registration Review Risk Assessment.

PC Code: 122101
Decision No.: 559171
Petition No.: N/A
Risk Assessment Type: Dietary
TXR No.: N/A
MRID No.: N/A

DP Barcode: D459303
Registration No.: N/A
Regulatory Action: Registration Review
Case No.: 3125
CAS No.: 60207-90-1
40 CFR: §180.434

FROM: Janet Camp, Chemist
Risk Assessment Branch IV (RAB IV)
Health Effects Division (HED, 7509P)

THROUGH: David E. Hrdy, Senior Biologist
Danette Drew, Senior Chemist
Dietary Exposure Science Advisory Council (DESAC)

And

Thurston G. Morton, Senior Chemist
RAB IV, HED (7509P)

TO: Linsey Walsh, Chemical Review Manager
Avivah Jakob, Team Leader
Kelly Sherman, Branch Chief
Risk Management and Implementation Branch III (RMIB III)
Pesticide Re-Evaluation Division (PRD; 7508P)

Executive Summary

Acute and chronic aggregate dietary (food and drinking water) exposure and risk assessments were conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID) Version 3.16. This software uses 2003-2008 food consumption data from the U.S. Department of Agriculture's (USDA's) National Health and Nutrition Examination Survey, What We Eat in America (NHANES/WWEIA). The analyses were conducted in support of the registration review risk assessment. This memorandum was reviewed by two peer reviewers of the DESAC, per the DESAC Standard Operating Procedure (SOP, 01/20/2020).

The acute and chronic dietary risk assessments to support registration review are for residues of propiconazole and its metabolites convertible to 2,4-dichlorobenzoic acid (2,4-DCBA), expressed as propiconazole equivalents in/on food; and for residues of propiconazole in drinking water. The common metabolites- triazole, triazolylalanine (TA), triazolylacetic acid (TAA), and triazolylpyruvic acid are also residues of concern. Since these are common metabolites from several triazole pesticides and have their own toxicological endpoints, the risk assessment for triazoles will be assessed separately.

Acute Dietary (Food and Drinking Water) Exposure Assessment

A partially refined acute dietary (food and drinking water) exposure assessment was conducted in support of the registration review risk assessment. The Environmental Fate and Effects Division (EFED) provided modeled estimated drinking water concentrations (EDWCs) which were incorporated into the analysis.

The acute analysis incorporated established and recommended tolerance-level residues adjusted for risk assessment residues of concern for some commodities, average or maximum field trial residues for the remaining commodities according to blending classification, 100% crop treated (CT), and HED's 2018 default processing factors (except for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, pineapple juice, and Rapeseed subgroup 20A oil commodities).

The acute dietary (food and drinking water) risks were estimated at 5.7% of the acute population adjusted dose (aPAD) at the 95th exposure percentile for the general U.S. population and 19% of the aPAD for the most highly exposed population subgroup (children 1-2 years old). All risk estimates are below HED's level of concern (<100% aPAD).

Chronic Dietary (Food and Drinking Water) Exposure Assessment

A partially refined chronic dietary (food and drinking water) exposure assessment was conducted in support of the registration review risk assessment. EFED provided modeled EDWCs which were incorporated into the analysis.

The chronic analysis incorporated established and recommended tolerance-level residues adjusted for risk assessment residues of concern for some commodities, average field trial

residues for the remaining commodities, 100% CT, and HED's 2018 default processing factors (except for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, pineapple juice, and Rapeseed subgroup 20A oil commodities).

The chronic dietary (food and drinking water) risks were estimated at 5.0% of the chronic population adjusted dose (cPAD) for the general U.S. population and 15% of the cPAD for the most highly exposed population subgroup (children 1-2 years old). All risk estimates are below HED's level of concern (<100% cPAD).

Cancer Dietary Exposure Assessment

The HED Carcinogenicity Peer Review Committee (CPRC) classified propiconazole as Group C - possible human carcinogen and recommended that for the purpose of risk characterization the Reference Dose (RfD) approach should be used and would be protective of any chronic toxicity, including carcinogenicity.

I. Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose (i.e., the dose that HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the population-adjusted dose (PAD). The PAD is equivalent to the point of departure (POD) divided by all applicable uncertainty factors, including the FQPA Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. References that discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 06/21/2000, web link: https://www.regulations.gov/document?D=EPA-HQ-OPP-2007-0780-0001; or see SOP 99.6 (08/20/1999).

The most recent dietary risk assessment for propiconazole was conducted by J. Camp and T. Morton (D446375, 07/15/2019).

II. Residue Information

Residues of Concern

The Metabolism Assessment Review Committee (MARC) previously recommended that the tolerance expression be revised to include parent only and all tolerances converted to parent only; for risk assessment, the residues of concern should include propiconazole and all metabolites containing the 2,4-DCBA moiety, expressed in parent equivalents (D279299, B. Cropp-Kohlligian, 04/04/2002). HED subsequently concluded that the tolerance expression would be changed during registration review (D429076, T. Morton et al., 12/10/2015).

Residues of concern for propiconazole in crops, livestock, and drinking water are summarized in Table 1, below.

Table 1. Summary of Metabolites and Degradates to be Included in the Risk Assessment and Tolerance Expression.

Matrix	For Risk Assessment[1]	For Tolerance Expression
Plants	Parent plus all metabolites convertible to 2,4-DCBA	Parent only
Rotational crop	Parent plus all metabolites convertible to 2,4-DCBA	Parent only
Livestock	Parent plus all metabolites convertible to 2,4-DCBA	Parent only
Water	Parent only	N/A

[1] For all triazole-containing pesticides, the triazole-containing metabolites 1,2,4-T, TA, and TAA should also be included as residues of concern for risk assessment purposes only for plant and livestock commodities. Since these metabolites are common to the entire class of triazole-derivative fungicides and because of differential toxicity between the metabolites and the various parent compounds, risks associated with exposure to 1,2,4-T and to TA/TAA are addressed in separate risk assessment documents.

Overview of Residue Data Used

Tolerances are established for residues of propiconazole in various commodities in 40 CFR §180.434 and range from 0.2 to 1000 ppm. Tolerances with regional registrations are established for residues of propiconazole in/on Cranberry and Rice, wild, grain. Tolerances for residues of propiconazole are also established in/on various livestock commodities. Currently, compliance with the tolerance levels is to be determined by measuring propiconazole and all metabolites convertible to 2,4-DCBA, calculated as the stoichiometric equivalent of propiconazole. However, since the MARC previously recommended that the tolerance expression be revised to include parent only, HED has converted tolerances to parent propiconazole only, where possible, for registration review.

HED has recommended to revise the tolerances for resides in/on the following commodities to reflect residues of parent propiconazole only: Avocado; Barley, grain; Cherry subgroup 12-12A; Corn, field, grain; Corn, pop, grain; Corn, sweet, kernel plus cob with husks removed; Cranberry; Oat, grain; Peach subgroup 12-12B; Plum subgroup 12-12C; Quinoa, grain; Rapeseed subgroup 20A; Rye, grain; Soybean, seed; Sugarcane, cane; Wheat, bran; and Wheat, grain. Therefore, to take into account the residues of concern for risk assessment, field trial data reflecting residues of parent plus all metabolites convertible to 2,4-DCBA have been used in the acute and chronic dietary assessments for these commodities.

For remaining commodities with existing tolerances not converted to reflect parent only due to lack of residue data measuring parent propiconazole, tolerance-level residues were incorporated into the acute and chronic dietary assessments, as the established tolerance level accounts for metabolites convertible to 2,4-DCBA. For some of the commodities that were not converted to parent only, field trial residues were incorporated in the chronic assessment. Field trial data were

translated from representative commodities to non-representative commodities according to HED SOP 2000.1: "Guidance for Translation of Field Trial Data from Representative Commodities in the Crop Group Regulation to other Commodities in Each Crop Group/Subgroup."

The established tolerances for residues in/on Tomato; Fruit, citrus, group 10-10; and Tea already reflect residues of parent propiconazole only. Residue data measuring parent plus all metabolites convertible to 2,4-DCBA are available for tomato; therefore, field trial data reflecting residues of parent plus all metabolites convertible to 2,4-DCBA were incorporated into the dietary assessments for tomato commodities. For tea, a calculated metabolite conversion factor of 8.3X from tea residue data was incorporated into the dietary assessments to account for all metabolites convertible to 2,4-DCBA. For commodities in Fruit, citrus, group 10-10, residue data measuring all metabolites convertible to 2,4-DCBA are not available. To calculate a metabolite conversion factor, residue data measuring all metabolites convertible to 2,4-DCBA in/on stone fruit were used. Stone fruit residue data were used since post-harvest uses of propiconazole in/on citrus fruit and stone fruit are similar and the available foliar plant metabolism data did not measure residues of metabolites convertible to 2,4-DCBA. The calculated metabolite conversion factor of 1.2X was applied to citrus fruit field trial residue data and incorporated into the dietary assessments for commodities in Fruit, citrus, group 10-10 to account for all metabolites convertible to 2,4-DCBA (Table 2).

Table 2. Calculation of Metabolite Conversion Factor for Citrus Fruits.

Source	Treatment	Commodity	Propiconazole Residues (ppm)	Total Residue[1] (ppm)	Calculated Conversion Factor
MRID 48438206	High volume spray	Peach	0.14	0.33	2.36
			0.2	0.13	0.65
	Low volume spray		0.49	0.43	0.88
			0.5	0.42	0.84
	Dip		1.73	2.52	1.46
			1.17	0.73	0.62
			1.35	1.06	0.79
			2.11	2.29	1.09
	Low volume spray	Plum	0.16	0.13	0.81
			0.19	0.4	2.11
	Dip		0.18	0.11	0.61
			0.2	0.13	0.65
	High volume spray	Cherry	0.17	0.24	1.41
	Dip		0.85	2.23	2.62
			0.67	0.78	1.16
				Mean	**1.2**

[1] Residues measured as all metabolites convertible to 2,4-DCBA and expressed in propiconazole equivalents.

The analyses incorporated HED's 2018 default processing factors for all processed commodities that do not have individual tolerances, except for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, pineapple juice, and oil commodities in Rapeseed subgroup 20A.

Processing data are required for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, and pineapple juice, as these processed commodities are listed in Table 1 of OCSPP 860.1000. Since the established tolerance levels for the raw agricultural commodities (tomato; fruit, citrus, group 10-10, plum; pineapple) cover the residues in the processed commodities, separate tolerances are not established or needed for the processed commodities. Therefore, the processing factors for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, pineapple juice, were set to 1.0X.

The available canola seed residue data demonstrate that residues of propiconazole and metabolites are reduced in canola oil; therefore, the processing factor for oil commodities in Rapeseed subgroup 20A was reduced to 0.2X (MRID 48604486; D408507, D408509, D408510, T. Morton, 02/27/2014).

See Attachment 1 for the processing factors and residue values used in the analyses. See Attachment 2 for the full list of established and HED-recommended tolerances relevant for dietary risk assessment.

Residues in Fish

The USDA Pesticide Data Program (PDP) monitored pesticide residues in catfish in 2008, 2009, and 2010. In addition, PDP analyzed salmon in 2013 and 2014. PDP analyzed 1279 catfish samples and 618 samples of salmon for propiconazole residues. There were no detectable propiconazole residues. As a result, residues in fish were not included in the assessment.

III. Percent Crop Treated Information

100% CT was assumed for all crops.

IV. Drinking Water Data

EFED determined that the EDWCs determined in the previous drinking water assessment are still valid and should be relied upon for the registration review dietary risk assessment (D456202, I. Abdel-Saheb, 10/14/2020).

Therefore, the EDWCs used in the dietary risk assessment were previously provided by EFED in the following memorandum: “Drinking Water Assessment for Proposed New Uses of Propiconazole on Dill, Radish, Leafy Brassica Subgroup 5B, Watercress, Ti palm and Crop Group conversions for Stone Fruit Group 12-12 and Tree Nut Group 14-12” (D423648, A. Abdel-Saheb, 05/27/2015) and incorporated directly into this dietary assessment. Water residues were incorporated in the DEEM-FCID into the food categories “water, direct, all sources” and “water, indirect, all sources.”

The EDWCs of propiconazole were calculated using the Surface Water Concentration Calculator (SWCC; surface water) and the Pesticide Root Zone Model-Ground Water (PRZM-GW;

groundwater) model). The EDWCs for propiconazole were calculated based on the maximum yearly application rate of 7.2 lb ai/A/year for the PA turf scenario (surface water) and WI sand scenario (groundwater) representing turf use.

Higher maximum EDWCs were observed for groundwater than for surface water. Therefore, per EFED recommendation, the acute and chronic dietary assessments incorporated EDWC values of 0.0379 and 0.0351 ppm, respectively.

The EDWCs provided by EFED are summarized in Table 3.

Table 3. Estimated Drinking Water Concentrations (EDWCs) for Propiconazole Uses.

Use and Model	Acute EDWCs (µg/L)	Chronic EDWCs (µg/L)
Surface Water [SWCC; PA turf scenario]	35.2	18.6 (non-cancer)
		14.4 (cancer)
Groundwater [PRZM-GW; WI sand scenario]	**37.9**	**35.1**
[Any other model used (e.g., PFAM]	None	

Highest EDWCs identified in **bold.**

[1] For full details, refer to: D423648, A. Abdel-Saheb, 05/27/2015

V. DEEM-FCID Program and Consumption Information

Propiconazole acute and chronic dietary exposure assessments were conducted using the DEEM-FCID, Version 3.16, which incorporates 2003-2008 consumption data from USDA's NHANES/WWEIA. The data are based on the reported consumption of more than 20,000 individuals over two non-consecutive survey days. Foods "as consumed" (e.g., apple pie) are linked to EPA-defined food commodities (e.g., apples, peeled fruit - cooked; fresh or N/S; baked; or wheat flour - cooked; fresh or N/S, baked) using publicly available recipe translation files developed jointly by USDA/ARS and EPA. For chronic exposure assessment, consumption data are averaged for the entire U.S. population and within population subgroups. However, for acute exposure assessment, consumption data are retained as individual consumption events. Based on analysis of the 2003-2008 WWEIA consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to report risk for the following population subgroups: the general U.S. population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, adults 20-49, females 13-49, and adults 50-99 years old.

For a chronic dietary exposure assessment, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food-commodity residue list is multiplied by the average daily consumption estimate for that food/food form to produce a residue intake estimate. The resulting residue intake estimate for each food/food form is summed with the residue intake estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

For an acute exposure assessment, individual one-day food consumption data are used on an individual-by-individual basis. The reported consumption amounts of each food item can be multiplied by a residue point estimate and summed to obtain a total daily pesticide exposure for a deterministic exposure assessment, or "matched" in multiple random pairings with residue values and then summed in a probabilistic assessment. The resulting distribution of exposures is expressed as a percentage of the aPAD on both a user (i.e., only those who reported eating relevant commodities/food forms) and a per-capita (i.e., those who reported eating the relevant commodities as well as those who did not) basis. In accordance with HED policy, per capita exposure and risk are reported for analyses performed at all levels of refinement. However, for deterministic assessments, any significant differences in user vs. per capita exposure and risk are specifically identified and noted in the risk assessment.

VI. Toxicological Information

Table 4 summarizes the toxicological doses and endpoints for propiconazole concerning dietary exposure assessment, which have been updated for registration review. The PODs selected in the previous risk assessment for the new use of propiconazole on avocado (T. Morton et al., 07/15/2019, D446376) have been updated to incorporate new data and current HED practices for endpoint selection. The Agency reassessed the toxicity databases for propiconazole in accordance with current practices and determined that many of the effects previously noted are no longer considered to be adverse.

Table 4. Summary of Toxicological Doses and Endpoints for Propiconazole for Use in Dietary Human Health Risk Assessments.

Exposure/ Scenario	POD	Uncertainty/FQPA Safety Factors	RfD, PAD, Level of Concern for Risk Assessment	Study and Toxicological Effects
Acute Dietary (All Populations, including Infants and Children and Females 13-49 years of age)	NOAEL = 100 mg/kg	UF_A = 10X UF_H = 10X FQPA SF = 1X	Acute RfD = 1 mg/kg aPAD = 1 mg/kg	Acute neurotoxicity study – rat (MRID 46604601) LOAEL = 300 mg/kg/day based on reduced motor activity at time of peak effect, increased time to tail flick in females and several clinical signs (tiptoe gait, piloerection, paleness, cold to touch, subdued behavior)
Chronic Dietary (All Populations)	NOAEL = 18.1 mg/kg/day	UF_A = 10X UF_H = 10X FQPA SF = 1X	Chronic RfD = 0.18 mg/kg/day cPAD = 0.18 mg/kg/day	Chronic/carcinogenicity study – rat (MRID 00129918) LOAEL = 96.4 mg/kg/day based on liver lesions (vacuolation of hepatocytes in males, ballooned cells in the liver of males, and foci of enlarged hepatocytes in females), increased incidence

Table 4. Summary of Toxicological Doses and Endpoints for Propiconazole for Use in Dietary Human Health Risk Assessments.				
Exposure/ Scenario	**POD**	**Uncertainty/FQPA Safety Factors**	**RfD, PAD, Level of Concern for Risk Assessment**	**Study and Toxicological Effects**
				of luminal dilation of the uterus in females, and reduced body weights in both males and females
Cancer (oral, dermal, inhalation)	Classification: Group C, possible human carcinogen; RfD approach for risk characterization, (E. Doyle, 09/11/1992, TXR 0009771)			

Point of departure (POD) = A data point or an estimated point that is derived from observed dose-response data and used to mark the beginning of extrapolation to determine risk associated with lower environmentally relevant human exposures. NOAEL = no-observed adverse-effect level. LOAEL = lowest-observed adverse-effect level. UF = uncertainty factor. UF_A = extrapolation from animal to human (interspecies). UF_H = potential variation in sensitivity among members of the human population (intraspecies). FQPA SF = FQPA Safety Factor. PAD = population-adjusted dose (a = acute, c = chronic). RfD = reference dose.

VII. Results/Discussion

As stated above, for acute and chronic assessments, HED is concerned when dietary risk estimates exceed 100% of the PAD. The DEEM-FCID analyses estimate the dietary exposure and risk of the general U.S. population and various population subgroups. The results reported in Table 5 are for the general U.S. Population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, females 13-49, adults 20-49, and adults 50-99 years.

The results of the acute dietary exposure and risk assessment at the 95th percentile of exposure, as well as the chronic dietary exposure and risk assessment are reported in Table 5, below.

Table 5. Summary of Dietary (Food and Drinking Water) Exposure and Risk for Propiconazole.						
Population Subgroup	**Acute Dietary (95th Percentile)**		**Chronic Dietary**		**Cancer**	
	Dietary Exposure (mg/kg/day)	**% aPAD***	**Dietary Exposure (mg/kg/day)**	**% cPAD***	**Dietary Exposure (mg/kg/day)**	**Risk**
General U.S. Population	0.057335	5.7	0.008993	5.0	N/A	N/A
All Infants (<1 year old)	0.079980	8.0	0.016730	9.3		
Children 1-2 years old*	**0.185969**	**19**	**0.027730**	**15**		
Children 3-5 years old	0.151276	15	0.022239	12		
Children 6-12 years old	0.080390	8.0	0.011678	6.5		
Youth 13-19 years old	0.055660	5.6	0.007202	4.0		
Adults 20-49 years old	0.044984	4.5	0.007519	4.2		
Adults 50-99 years old	0.038703	3.9	0.006882	3.8		
Females 13-49 years old	0.44480	4.5	0.006910	3.8		

* The subpopulation with the highest risk estimate is in **bold** text.

VIII. Characterization of Inputs/Outputs

The partially refined acute analysis incorporated established and recommended tolerance-level residues adjusted for risk assessment residues of concern for some commodities, average or maximum field trial residues for the remaining commodities, 100% CT, and HED's 2018 default processing factors (except for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, pineapple juice, and Rapeseed subgroup 20A oil commodities). The partially refined chronic analysis incorporated established and recommended tolerance-level residues for some commodities, average field trial residues for the remaining commodities, 100% CT, and HED's 2018 default processing factors (except for tomato paste, tomato puree, orange juice, tangerine juice, lemon juice, lime juice, grapefruit juice, dried prune plum, pineapple juice, and Rapeseed subgroup 20A oil commodities). Drinking water estimates were provided by EFED and incorporated directly into the acute and chronic assessments. Various refinements could be made to the assessments, including the use of empirical processing factors and/or monitoring data and/or incorporation of percent CT estimates. However, as there are no risk estimates of concern, no further refinements were incorporated. Given the degree of conservatism used in the assessment, actual exposures are expected to be much lower.

IX. Conclusions

Acute and chronic food and drinking water exposure and dietary risk estimates for propiconazole do not exceed HED's level of concern for the general U.S. population, or any of the population subgroups (≤ 100% PAD). HED is confident that the assessment does not underestimate risk to the general U.S. population or any population subgroup.

X. List of Attachments

Attachment 1. Summary of Residues Used in the Dietary Exposure Assessments
Attachment 2. Tolerance Summary Table
Attachment 3. Acute Food and Water Residue Input File
Attachment 4. Acute Food and Water Results File
Attachment 5. Chronic Food and Water Residue Input File
Attachment 6. Chronic Food and Water Results File

Attachment 1. Summary of Residues Used in the Dietary Exposure Assessments

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
1AB	Beet, garden, roots	NB/PB	Tolerance	0.3	Average Field Trial	0.056521	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated radish field trial data (MRID 49389903).
1AB	Beet, garden, roots-babyfood	NB/PB	Tolerance	0.3	Average Field Trial	0.056521	1	
1A	Beet, sugar	B	Tolerance	0.3	Average Field Trial	0.073667	1	Established tolerance for residues in/on Beet, sugar, roots. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated sugar beet field trial data (MRID 44757207, 45080807).
1A	Beet, sugar-babyfood	B	Tolerance	0.3	Average Field Trial	0.073667	1	
1A	Beet, sugar, molasses	B	Tolerance	1.5	Tolerance	1.5	1	Established tolerance for residues in/on Beet, sugar, molasses. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
1A	Beet, sugar, molasses-babyfood	B	Tolerance	1.5	Tolerance	1.5	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
1AB	Burdock	NB	Tolerance	0.3	Average Field Trial	0.056521	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated radish field trial data (MRID 49389903).
1AB	Carrot	NB/PB	Tolerance	0.3	Average Field Trial	0.100714	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated carrot field trial data (MRID 43786402)
1AB	Carrot-babyfood	NB/PB	Tolerance	0.3	Average Field Trial	0.100714	1	
1AB	Carrot, juice	NB/PB	Tolerance	0.3	Average Field Trial	0.100714	1.4	
1AB	Celeriac	NB	Tolerance	0.3	Average Field Trial	0.056521	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated radish field trial data (MRID 49389903).
1AB	Chicory, roots	NB	Tolerance	0.3	Average Field Trial	0.100714	1	Established tolerance for residues in/on Vegetable, root, except sugar beet,
1AB	Ginseng, dried	B	Tolerance	0.3	Average Field Trial	0.100714	1	
1AB	Horseradish	NB/PB	Tolerance	0.3	Average Field Trial	0.100714	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
1AB	Parsley, turnip rooted	NB	Tolerance	0.3	Average Field Trial	0.100714	1	subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated carrot field trial data (MRID 43786402)
1AB	Parsnip	NB	Tolerance	0.3	Average Field Trial	0.100714	1	
1AB	Parsnip-babyfood	PB	Tolerance	0.3	Average Field Trial	0.100714	1	
1AB	Radish, roots	NB/PB	Tolerance	0.3	Average Field Trial	0.056521	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated radish field trial data (MRID 49389903).
1AB	Radish, Oriental, roots	NB	Tolerance	0.3	Average Field Trial	0.056521	1	
1AB	Rutabaga	NB/PB	Tolerance	0.3	Average Field Trial	0.056521	1	
1AB	Salsify, roots	NB	Tolerance	0.3	Average Field Trial	0.100714	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated carrot field trial data (MRID 43786402)

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
1AB	Turnip, roots	NB/PB	Tolerance	0.3	Average Field Trial	0.056521	1	Established tolerance for residues in/on Vegetable, root, except sugar beet, subgroup 1B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated radish field trial data (MRID 49389903).
2	Beet, garden, tops	PB	Tolerance	0.3	Tolerance	0.3	1	Established tolerance for residues in/on Beet, garden, tops; recommended tolerance in/on Beet, garden, leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
2	Radish, tops	PB	Tolerance	20	Average Field Trial	4.076222	1	Established tolerance for residues in/on *Brassica*, leafy greens, subgroup 4-16B, except watercress. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated mustard greens field trial data (MRID 49389902)
2	Radish, Oriental, tops	PB	Tolerance	20	Average Field Trial	4.076222	1	
3A	Garlic, bulb	NB/PB	Tolerance	0.2	Average Field Trial	0.066071	1	Established tolerance for residues in/on Onion, bulb, subgroup 3-07A. No change to the tolerance
3A	Garlic, bulb-babyfood	PB	Tolerance	0.2	Average Field Trial	0.066071	1	
3A	Onion, bulb	NB/PB	Tolerance	0.2	Average Field Trial	0.066071	1	
3A	Onion, bulb-babyfood	PB	Tolerance	0.2	Average Field Trial	0.066071	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
3A	Onion, bulb, dried	B	Tolerance	0.2	Average Field Trial	0.066071	9.7	level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated onion bulb field trial data (MRID 43786401).
3A	Onion, bulb, dried-babyfood	B	Tolerance	0.2	Average Field Trial	0.066071	9.7	
3A	Shallot, bulb	NB	Tolerance	0.2	Average Field Trial	0.066071	1	
3B	Chive, fresh leaves	B	Tolerance	9	Average Field Trial	2.425	1	Established tolerance for residues in/on Onion, green, subgroup 3-07B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated green onion field trial data (MRID 43786401)
3B	Leek	NB/PB	Tolerance	9	Average Field Trial	2.425	1	
3B	Onion, green	PB	Tolerance	9	Average Field Trial	2.425	1	
3B	Shallot, fresh leaves	NB	Tolerance	9	Average Field Trial	2.425	1	
4A	Arugula	PB	Tolerance	20	Average Field Trial	4.076222	1	Established tolerance for residues in/on *Brassica*, leafy greens, subgroup 4-16B, except watercress. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated mustard greens field trial data (MRID 49389902)
4A	Cress, garden	PB	Tolerance	20	Average Field Trial	4.076222	1	
4A	Cress, upland	PB	Tolerance	20	Average Field Trial	4.076222	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
4A	Parsley, leaves	PB	Tolerance	13	Tolerance	13	1	Established tolerance for residues in/on Parsley, fresh leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
4B	Cardoon	NB	Tolerance	5	Tolerance	5	1	Established tolerance for residues in/on Leaf petiole vegetable subgroup 22B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
4B	Celery	NB/PB	Tolerance	5	Tolerance	5	1	
4B	Celery-babyfood	NB/PB	Tolerance	5	Tolerance	5	1	
4B	Celery, juice	PB	Tolerance	5	Tolerance	5	1.4	
4B	Celtuce	NB	Tolerance	5	Tolerance	5	1	Established tolerance for residues in/on Celtuce. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
4B	Fennel, Florence	NB	Tolerance	5	Tolerance	5	1	Established tolerance for residues in/on Fennel, Florence, fresh leaves and stalk. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
4B	Rhubarb	NB/PB	Tolerance	5	Tolerance	5	1	Established tolerance for residues in/on Leaf petiole vegetable subgroup 22B. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
4B	Swiss chard	NB	Tolerance	5	Tolerance	5	1	Established tolerance for residues in/on Swiss chard. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
5A	Broccoli, Chinese	NB	Tolerance	20	Average Field Trial	4.076222	1	Established tolerance for residues in/on *Brassica*, leafy greens, subgroup 4-16B, except watercress. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated mustard greens field trial data (MRID 49389902)
5B	Broccoli raab	NB	Tolerance	20	Average Field Trial	4.076222	1	
5B	Cabbage, Chinese, bok choy	PB	Tolerance	20	Average Field Trial	4.076222	1	
5B	Collards	PB	Tolerance	20	Average Field Trial	4.076222	1	
5B	Kale	PB	Tolerance	20	Average Field Trial	4.076222	1	
5B	Mustard greens	PB	Tolerance	20	Average Field Trial	4.076222	1	
5B	Rape greens	PB	Tolerance	20	Average Field Trial	4.076222	1	
5B	Turnip, greens	PB	Tolerance	20	Average Field Trial	4.076222	1	
6	Soybean, seed	B	Average Field Trial	0.375	Average Field Trial	0.375	1	Established tolerance for residues in/on Soybean, seed. A change to the tolerance level to reflect parent only is
6	Soybean, soy milk	B	Average Field Trial	0.375	Average Field Trial	0.375	1	
6	Soybean, soy milk-babyfood or in	B	Average Field Trial	0.375	Average Field Trial	0.375	1	
6	Soybean, oil	B	Average Field Trial	0.375	Average Field Trial	0.375	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
6	Soybean, oil-babyfood	B	Average Field Trial	0.375	Average Field Trial	0.375	1	recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 46473001, 43386502, 46576301 (Soybean seed)
6A	Bean, snap, succulent	PB	Tolerance	0.7	Tolerance	0.7	1	Established tolerance for residues in/on Bean, snap; recommended tolerance for residues in/on Bean, snap, succulent. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
6A	Bean, snap, succulent-babyfood	PB	Tolerance	0.7	Tolerance	0.7	1	
6B	Bean, broad, succulent	PB	Tolerance	0.1	Tolerance	0.1	1	Established tolerance for residues in/on Bean, succulent shelled. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
6B	Bean, cowpea, succulent	PB	Tolerance	0.1	Tolerance	0.1	1	
6B	Bean, lima, succulent	PB	Tolerance	0.1	Tolerance	0.1	1	
6C	Bean, black, seed	B	Tolerance	0.4	Tolerance	0.4	1	Established tolerance for residues in/on Bean, dry seed. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
6C	Bean, broad, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, cowpea, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, great northern, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, kidney, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, lima, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, mung, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, navy, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, pink, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Bean, pinto, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Chickpea, seed	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Chickpea, seed-babyfood	B	Tolerance	0.4	Tolerance	0.4	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
6C	Chickpea, flour	B	Tolerance	0.4	Tolerance	0.4	1	
6C	Soybean, flour	B	Average Field Trial	0.375	Average Field Trial	0.375	2.2	Established tolerance for residues in/on Soybean, seed. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 46473001, 43386502, 46576301 (Soybean seed)
6C	Soybean, flour-babyfood	B	Average Field Trial	0.375	Average Field Trial	0.375	2.2	
8A	Tomatillo	NB/PB	Maximum	1.76	Average Field Trial	0.789042	1	Established tolerance for residues in/on Tomato (40 CFR §180.1). The established tolerance level already reflects parent only. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48438204 (Tomato)
8A	Tomato	NB/PB	Maximum	1.76	Average Field Trial	0.789042	1	Established tolerance for residues in/on Tomato. The established tolerance level already reflects parent only. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48438204 (Tomato)
8A	Tomato-babyfood	PB	Maximum	1.76	Average Field Trial	0.789042	1	
8A	Tomato, paste	B	Average Field Trial	0.789042	Average Field Trial	0.789042	1	
8A	Tomato, paste-babyfood	B	Average Field Trial	0.789042	Average Field Trial	0.789042	1	
8A	Tomato, puree	B	Average Field Trial	0.789042	Average Field Trial	0.789042	1	
8A	Tomato, puree-babyfood	B	Average Field Trial	0.789042	Average Field Trial	0.789042	1	
8A	Tomato, dried	B	Average Field Trial	0.789042	Average Field Trial	0.789042	14.3	
8A	Tomato, dried-babyfood	B	Average Field Trial	0.789042	Average Field Trial	0.789042	14.3	
8A	Tomato, juice	PB	Maximum	1.76	Average Field Trial	0.789042	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
8A	Tomato, Tree	NB	Maximum	1.76	Average Field Trial	0.789042	1	
10A	Citron	NB	Maximum	6.792	Average Field Trial	2.7645	1	Established tolerance for residues in/on Fruit, citrus, group 10-10. The established tolerance level already reflects parent only. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. The available citrus fruit data reported residues of parent only. Therefore, a calculated metabolite conversion factor of 1.2x was incorporated to account for metabolites convertible to 2,4-DCBA. MRID 48438205, 48524206 (Orange)
10A	Citrus hybrids	NB	Maximum	6.792	Average Field Trial	2.7645	1	
10A	Citrus, oil	B	Tolerance	1000	Tolerance	1000	1.2 (metab. Ratio)	Established tolerance for residues in/on Citrus, oil; recommended tolerance for residues in/on Fruit, citrus, group 10-10, oil. The established/recommended tolerance level reflects parent only. The available citrus fruit data reported residues of parent only. Therefore, a calculated metabolite conversion factor of 1.2x was incorporated to account for metabolites convertible to 2,4-DCBA. MRID 48438205, 48524206 (Orange)
10A	Orange	NB/PB	Maximum	6.792	Average Field Trial	2.7645	1	Established tolerance for residues in/on Fruit, citrus, group 10-10.
10A	Orange, juice	PB	Maximum	6.792	Average Field Trial	2.7645	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
10A	Orange, juice-babyfood	PB	Maximum	6.792	Average Field Trial	2.7645	1	The established tolerance level already reflects parent only. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. The available citrus fruit data reported residues of parent only. Therefore, a calculated metabolite conversion factor of 1.2x was incorporated to account for metabolites convertible to 2,4-DCBA. MRID 48438205, 48524206 (Orange)
10A	Orange, peel	PB	Maximum	6.792	Average Field Trial	2.7645	3.3	
10A	Tangerine	NB	Maximum	6.792	Average Field Trial	2.7645	1	
10A	Tangerine, juice	PB	Maximum	6.792	Average Field Trial	2.7645	1	
10B	Kumquat	NB	Maximum	8.208	Average Field Trial	3.486857	1	Established tolerance for residues in/on Fruit, citrus, group 10-10. The established tolerance level already reflects parent only. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. The available citrus fruit data reported residues of parent only. Therefore, a calculated metabolite conversion factor of 1.2x was incorporated to account for metabolites convertible to 2,4-DCBA. MRID 48438205, 48524206 (Lemon)
10B	Lemon	NB/PB	Maximum	8.208	Average Field Trial	3.486857	1	
10B	Lemon, juice	PB	Maximum	8.208	Average Field Trial	3.486857	1	
10B	Lemon, juice-babyfood	PB	Maximum	8.208	Average Field Trial	3.486857	1	
10B	Lemon, peel	PB	Maximum	8.208	Average Field Trial	3.486857	3.3	
10B	Lime	PB	Maximum	8.208	Average Field Trial	3.486857	1	
10B	Lime, juice	PB	Maximum	8.208	Average Field Trial	3.486857	1	
10B	Lime, juice-babyfood	PB	Maximum	8.208	Average Field Trial	3.486857	1	
10C	Grapefruit	NB/PB	Maximum	3.42	Average Field Trial	2.208	1	Established tolerance for residues in/on Fruit, citrus, group 10-10. The established tolerance level already reflects parent only. Therefore, to account for all metabolites convertible
10C	Grapefruit, juice	PB	Maximum	3.42	Average Field Trial	2.208	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
10C	Pummelo	NB	Maximum	3.42	Average Field Trial	2.208	1	to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. The available citrus fruit data reported residues of parent only. Therefore, a calculated metabolite conversion factor of 1.2x was incorporated to account for metabolites convertible to 2,4-DCBA. MRID 48438205, 48524206 (Grapefruit)
12A	Cherry	PB	Maximum	2.23	Average Field Trial	1.083333	1	Established tolerance for residues in/on Fruit, stone, group 12-12, except plum; recommended tolerance for residues in/on Cherry subgroup 12-12A. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48438206 (Cherry)
12A	Cherry-babyfood	PB	Maximum	2.23	Average Field Trial	1.083333	1	
12A	Cherry, juice	PB	Maximum	2.23	Average Field Trial	1.083333	1.5	
12A	Cherry, juice-babyfood	PB	Maximum	2.23	Average Field Trial	1.083333	1.5	
12B	Apricot	NB/PB	Maximum	2.52	Average Field Trial	1.133333	1	Established tolerance for residues in/on Fruit, stone, group 12-12, except plum; recommended tolerance for residues in/on Peach subgroup 12-12B. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data
12B	Apricot-babyfood	PB	Maximum	2.52	Average Field Trial	1.133333	1	
12B	Apricot, dried	B	Average Field Trial	1.133333333	Average Field Trial	1.133333	6	
12B	Apricot, juice	PB	Maximum	2.52	Average Field Trial	1.133333	1.3	
12B	Apricot, juice-babyfood	PB	Maximum	2.52	Average Field Trial	1.133333	1.3	
12B	Nectarine	NB	Maximum	2.52	Average Field Trial	1.133333	1	
12B	Peach	NB/PB	Maximum	2.52	Average Field Trial	1.133333	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
12B	Peach-babyfood	PB	Maximum	2.52	Average Field Trial	1.133333	1	were incorporated. MRID 48438206 (Peach)
12B	Peach, dried	B	Average Field Trial	1.133333333	Average Field Trial	1.133333	7	
12B	Peach, dried-babyfood	B	Average Field Trial	1.133333333	Average Field Trial	1.133333	7	
12B	Peach, juice	PB	Maximum	2.52	Average Field Trial	1.133333	1.3	
12B	Peach, juice-babyfood	PB	Maximum	2.52	Average Field Trial	1.133333	1.3	
12C	Plum	NB/PB	Maximum	0.4	Average Field Trial	0.1925	1	Established tolerance for residues in/on Fruit, stone, group 12-12, except plum and Plum; recommended tolerance for residues in/on Plum subgroup 12-12C. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48438206 (Plum)
12C	Plum-babyfood	PB	Maximum	0.4	Average Field Trial	0.1925	1	
12C	Plum, prune, fresh	NB	Maximum	0.4	Average Field Trial	0.1925	1	
12C	Plum, prune, fresh-babyfood	PB	Maximum	0.4	Average Field Trial	0.1925	1	
12C	Plum, prune, dried	PB	Maximum	0.4	Average Field Trial	0.1925	1	
12C	Plum, prune, dried-babyfood	PB	Maximum	0.4	Average Field Trial	0.1925	1	
12C	Plum, prune, juice	PB	Maximum	0.4	Average Field Trial	0.1925	1.4	
12C	Plum, prune, juice-babyfood	PB	Maximum	0.4	Average Field Trial	0.1925	1.4	
13A	Blackberry	PB	Tolerance	1	Tolerance	1	1	Established tolerance for residues in/on Caneberry subgroup 13-07A. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
13A	Blackberry, juice	PB	Tolerance	1	Tolerance	1	1.2	
13A	Blackberry, juice-babyfood	PB	Tolerance	1	Tolerance	1	1.2	
13A	Boysenberry	PB	Tolerance	1	Tolerance	1	1	
13A	Loganberry	PB	Tolerance	1	Tolerance	1	1	
13A	Raspberry	PB	Tolerance	1	Tolerance	1	1	
13A	Raspberry-babyfood	PB	Tolerance	1	Tolerance	1	1	
13A	Raspberry, juice	PB	Tolerance	1	Tolerance	1	1.2	
13A	Raspberry, juice-babyfood	PB	Tolerance	1	Tolerance	1	1.2	
13B	Blueberry	PB	Tolerance	1	Tolerance	1	1	Established tolerance for residues in/on Bushberry subgroup 13-07B. No change to the tolerance level is recommended by HED. Therefore, the currently
13B	Blueberry-babyfood	PB	Tolerance	1	Tolerance	1	1	
13B	Currant	PB	Tolerance	1	Tolerance	1	1	
13B	Currant, dried	PB	Tolerance	1	Tolerance	1	6.5	
13B	Elderberry	PB	Tolerance	1	Tolerance	1	1	
13B	Gooseberry	PB	Tolerance	1	Tolerance	1	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
13B	Huckleberry	PB	Tolerance	1	Tolerance	1	1	established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
13G	Cranberry	PB	Maximum	0.59	Average Field Trial	0.318333	1	Established tolerance for residues in/on Cranberry. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 44338101, 45778901 (Cranberry)
13G	Cranberry-babyfood	PB	Maximum	0.59	Average Field Trial	0.318333	1	
13G	Cranberry, dried	PB	Maximum	0.59	Average Field Trial	0.318333	7.9	
13G	Cranberry, juice	PB	Maximum	0.59	Average Field Trial	0.318333	1.2	
13G	Cranberry, juice-babyfood	PB	Maximum	0.59	Average Field Trial	0.318333	1.2	
13G	Strawberry	PB	Tolerance	1.3	Average Field Trial	0.345	1	Established tolerance for residues in/on Low growing berry subgroup 13-07G, except cranberry; recommended tolerance for residues in/on Berry, low growing, subgroup 13-07G, except cranberry. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated strawberry field trial data (MRID 45542401)
13G	Strawberry-babyfood	PB	Tolerance	1.3	Average Field Trial	0.345	1	
13G	Strawberry, juice	PB	Tolerance	1.3	Average Field Trial	0.345	1.2	
13G	Strawberry, juice-babyfood	PB	Tolerance	1.3	Average Field Trial	0.345	1.2	
14	Almond	PB	Tolerance	0.1	Average Field Trial	0.055417	1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by
14	Almond-babyfood	PB	Tolerance	0.1	Average Field Trial	0.055417	1	
14	Almond, oil	B	Tolerance	0.1	Average Field Trial	0.055417	2.8	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
14	Almond, oil-babyfood	B	Tolerance	0.1	Average Field Trial	0.055417	2.8	HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated almond field trial data (MRID 44757210, 45215806).
14	Brazil nut	PB	Tolerance	0.1	Tolerance	0.1	1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
14	Butternut	NB	Tolerance	0.1	Tolerance	0.1	1	
14	Cashew	PB	Tolerance	0.1	Tolerance	0.1	1	
14	Chestnut	PB	Tolerance	0.1	Average Field Trial	0.055417	1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated almond field trial data (MRID 44757210, 45215806).
14	Hazelnut	PB	Tolerance	0.1	Tolerance	0.1	1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
14	Hazelnut, oil	B	Tolerance	0.1	Tolerance	0.1	1.8	
14	Hickory nut	PB	Tolerance	0.1	Tolerance	0.1	1	
14	Macadamia nut	PB	Tolerance	0.1	Tolerance	0.1	1	
14	Pecan	PB	Tolerance	0.1	Tolerance	0.1	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
14	Pine nut	PB	Tolerance	0.1	Average Field Trial	0.055417	1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated almond field trial data (MRID 44757210, 45215806).
14	Pistachio	PB	Tolerance	0.1	Average Field Trial	0.055417	1	
14	Walnut	PB	Tolerance	0.1	Tolerance	0.1	1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
15	Barley, pearled barley	B	Average Field Trial	0.467588889	Average Field Trial	0.467589	1	Established tolerance for residues in/on Barley, grain. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48681702 (Barley grain)
15	Barley, pearled barley-babyfood	B	Average Field Trial	0.467588889	Average Field Trial	0.467589	1	
15	Barley, flour	B	Average Field Trial	0.467588889	Average Field Trial	0.467589	1	
15	Barley, flour-babyfood	B	Average Field Trial	0.467588889	Average Field Trial	0.467589	1	
15	Barley, bran	B	Average Field Trial	0.467588889	Average Field Trial	0.467589	1	
15	Corn, field, flour	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	Established tolerance for residues in/on Corn, field, grain. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all
15	Corn, field, flour-babyfood	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, field, meal	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, field, meal-babyfood	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, field, bran	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	21.4	
15	Corn, field, starch	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, field, starch-babyfood	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
15	Corn, field, syrup	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 45080809, 45080810 (Field Corn)
15	Corn, field, syrup-babyfood	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, field, oil	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, field, oil-babyfood	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, pop	B	Average Field Trial	0.055416667	Average Field Trial	0.055417	1	
15	Corn, sweet	NB/PB	Maximum	0.06	Average Field Trial	0.06	1	Established tolerance for residues in/on Corn, sweet, kernel plus cob with husks removed. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 43655612; D329394 (Sweet corn)
15	Corn, sweet-babyfood	PB	Maximum	0.06	Average Field Trial	0.06	1	
15	Oat, bran	B	Average Field Trial	0.512866667	Average Field Trial	0.512867	7.7	Established tolerance for residues in/on Oat, grain. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48681703 (Oat grain)
15	Oat, flour	B	Average Field Trial	0.512866667	Average Field Trial	0.512867	1	
15	Oat, flour-babyfood	B	Average Field Trial	0.512866667	Average Field Trial	0.512867	1	
15	Oat, groats/rolled oats	B	Average Field Trial	0.512866667	Average Field Trial	0.512867	1	
15	Oat, groats/rolled oats-babyfood	B	Average Field Trial	0.512866667	Average Field Trial	0.512867	1	
15	Rice, white	B	Tolerance	7	Tolerance	7	1	Established tolerance for residues in/on Rice, grain. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
15	Rice, white-babyfood	B	Tolerance	7	Tolerance	7	1	
15	Rice, brown	B	Tolerance	7	Tolerance	7	1.25	
15	Rice, brown-babyfood	B	Tolerance	7	Tolerance	7	1.25	
15	Rice, flour	B	Tolerance	7	Tolerance	7	1.25	
15	Rice, flour-babyfood	B	Tolerance	7	Tolerance	7	1.25	
15	Rice, bran	B	Tolerance	15	Tolerance	15	1	Established tolerance for residues in/on Rice, bran.

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
15	Rice, bran-babyfood	B	Tolerance	15	Tolerance	15	1	No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
15	Rye, grain	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	Established tolerance for residues in/on Rye, grain. Translated from wheat data. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48681704 (Wheat grain)
15	Rye, flour	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	
15	Sorghum, grain	B	Tolerance	3.5	Tolerance	3.5	1	Established tolerance for residues in/on Sorghum, grain, grain. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
15	Sorghum, syrup	B	Tolerance	3.5	Tolerance	3.5	1	
15	Triticale, flour	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	Established tolerance for residues in/on Wheat, grain (40 CFR §180.1).

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
15	Triticale, flour-babyfood	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48681704 (Wheat grain)
15	Wheat, grain	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	Established tolerance for residues in/on Wheat, grain. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48681704 (Wheat grain)
15	Wheat, grain-babyfood	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	
15	Wheat, flour	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	
15	Wheat, flour-babyfood	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	
15	Wheat, germ	B	Average Field Trial	0.0705	Average Field Trial	0.0705	1	
15	Wheat, bran	B	HAFT x PF	0.3335	HAFT x PF	0.3335	1	Established tolerance for residues in/on Wheat, bran. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. 0.145 HAFT (parent plus metabolites) x 2.3 PF (parent plus metabolites) MRID 48681704 (Wheat grain)

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
15	Wild rice	B	Tolerance	0.5	Tolerance	0.5	1	Established tolerance for residues in/on Rice, wild, grain. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
19A	Cilantro, leaves	PB	Tolerance	13	Tolerance	13	1	Established tolerance for residues in/on Cilantro, leaves; recommended tolerance for residues in/on Cilantro, fresh leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
19A	Cilantro, leaves-babyfood	PB	Tolerance	13	Tolerance	13	1	
19A	Dillweed	B	Tolerance	80	Average Field Trial	23.0925	1	Established tolerance for residues in/on Dillweed, dried leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated dried dillweed field trial data (MRID 49389901).
19A	Parsley, dried leaves	B	Tolerance	35	Tolerance	35	1	Established tolerance for residues in/on Parsley, dried

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
19A	Parsley, dried leaves-babyfood	B	Tolerance	35	Tolerance	35	1	leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
19B	Dill, seed	B	Tolerance	15	Average Field Trial	2.444513	1	Established tolerance for residues in/on Dill, seed. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated dill seed field trial data (MRID 49389901).
20A	Flax seed, oil	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	0.2	Established tolerance for residues in/on Rapeseed subgroup 20A. Empirical processing factor. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48604486 (Canola seed)
20A	Rapeseed, oil	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	0.2	
20A	Rapeseed, oil-babyfood	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	0.2	
20A	Sesame, seed	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	1	
20A	Sesame, seed-babyfood	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	1	
20A	Sesame, oil	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	0.2	
20A	Sesame, oil-babyfood	B	Average Field Trial	0.08690625	Average Field Trial	0.086906	0.2	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
20C	Coconut, oil-babyfood	B	Tolerance	0.1	Tolerance	0.1	2.9	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
21	Mushroom	PB	Tolerance	0.1	Tolerance	0.1	1	Established tolerance for residues in/on Mushroom. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
31	Beef, meat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Cattle, meat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
31	Beef, meat-babyfood	PB	Tolerance	0.05	Tolerance	0.05	1	
31	Beef, meat, dried	B	Tolerance	0.05	Tolerance	0.05	1.92	
31	Beef, meat byproducts	PB	Tolerance	0.05	Tolerance	0.05	1	
31	Beef, meat byproducts-babyfood	PB	Tolerance	0.05	Tolerance	0.05	1	
31	Beef, fat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Cattle, fat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
31	Beef, fat-babyfood	PB	Tolerance	0.05	Tolerance	0.05	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
31	Beef, kidney	PB	Tolerance	2	Tolerance	2	1	Established tolerance for residues in/on Cattle, kidney. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
31	Beef, liver	PB	Tolerance	2	Tolerance	2	1	Established tolerance for residues in/on Cattle, liver. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
31	Beef, liver-babyfood	PB	Tolerance	2	Tolerance	2	1	
32	Goat, meat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Goat, meat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
32	Goat, meat byproducts	PB	Tolerance	0.05	Tolerance	0.05	1	
32	Goat, fat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Goat, fat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
32	Goat, kidney	PB	Tolerance	2	Tolerance	2	1	Established tolerance for residues in/on Goat, kidney. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
32	Goat, liver	PB	Tolerance	2	Tolerance	2	1	Established tolerance for residues in/on Goat, liver. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
33	Horse, meat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Horse, meat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
34	Pork, kidney	PB	Tolerance	0.2	Tolerance	0.2	1	Established tolerance for residues in/on Hog, kidney. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
34	Pork, liver	PB	Tolerance	0.2	Tolerance	0.2	1	Established tolerance for residues in/on Hog, liver. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
35	Sheep, meat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Sheep, meat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
35	Sheep, meat-babyfood	PB	Tolerance	0.05	Tolerance	0.05	1	
35	Sheep, meat byproducts	PB	Tolerance	0.05	Tolerance	0.05	1	
35	Sheep, fat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Sheep, fat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
35	Sheep, fat-babyfood	PB	Tolerance	0.05	Tolerance	0.05	1	
35	Sheep, kidney	PB	Tolerance	2	Tolerance	2	1	Established tolerance for residues in/on Sheep, kidney. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
35	Sheep, liver	PB	Tolerance	2	Tolerance	2	1	Established tolerance for residues in/on Sheep, liver. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
36	Milk, fat	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Milk. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
36	Milk, fat-baby food/infant formula	PB	Tolerance	0.05	Tolerance	0.05	1	
36	Milk, nonfat solids	PB	Tolerance	0.05	Tolerance	0.05	1	
36	Milk, nonfat solids-baby food/in	PB	Tolerance	0.05	Tolerance	0.05	1	
36	Milk, water	PB	Tolerance	0.05	Tolerance	0.05	1	
36	Milk, water-babyfood/infant form	PB	Tolerance	0.05	Tolerance	0.05	1	
36	Milk, sugar (lactose)-baby food/	PB	Tolerance	0.05	Tolerance	0.05	1	
38	Meat, game	PB	Tolerance	0.05	Tolerance	0.05	1	Established tolerance for residues in/on Cattle, meat. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
39	Rabbit, meat	PB	Tolerance	0.05	Tolerance	0.05	1	
O	Avocado	NB	Maximum	0.227	Average Field Trial	0.078	1	Established tolerance for residues in/on Avocado. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 50454601 (Avocado)
O	Banana	NB/PB	Tolerance	0.2	Tolerance	0.2	1	Established tolerance for residues in/on Banana. No change to the tolerance
O	Banana-babyfood	NB/PB	Tolerance	0.2	Tolerance	0.2	1	
O	Banana, dried	B	Tolerance	0.2	Tolerance	0.2	4.8	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
O	Banana, dried-babyfood	B	Tolerance	0.2	Tolerance	0.2	4.8	level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
O	Coconut, meat	NB	Tolerance	0.1	Tolerance	0.1	2.1	Established tolerance for residues in/on Nut, tree, group 14-12. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
O	Coconut, meat-babyfood	PB	Tolerance	0.1	Tolerance	0.1	2.1	
O	Coconut, dried	B	Tolerance	0.1	Tolerance	0.1	2.1	
O	Coconut, milk	PB	Tolerance	0.1	Tolerance	0.1	4	
O	Coconut, oil	B	Tolerance	0.1	Tolerance	0.1	2.9	
O	Peanut	B	Tolerance	0.2	Tolerance	0.2	1	Established tolerance for residues in/on Peanut. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
O	Peanut, butter	B	Tolerance	0.2	Tolerance	0.2	1.2	
O	Peanut, oil	B	Tolerance	0.2	Tolerance	0.2	1	
O	Peppermint	B	Tolerance	10	Tolerance	10	1	Established tolerance for residues in/on Peppermint, tops; recommended tolerance for residues in/on Peppermint, fresh leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
O	Peppermint, oil	B	Tolerance	10	Tolerance	10	1	
O	Pineapple	NB/PB	Tolerance	4.5	Average Field Trial	1.111382	1	Established tolerance for residues in/on Pineapple. No change to the tolerance level is recommended by HED. Therefore, the currently
O	Pineapple-babyfood	PB	Tolerance	4.5	Average Field Trial	1.111382	1	
O	Pineapple, dried	B	Tolerance	4.5	Average Field Trial	1.111382	7.3	
O	Pineapple, juice	PB	Tolerance	4.5	Average Field Trial	1.111382	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.								
DEEM Crop Group	**DEEM Commodity**	**BC[1]**	**Acute Residue Data Source**	**Acute Residue**	**Chronic Residue Data Source**	**Chronic Residue**	**PF[2]**	**Comments**
O	Pineapple, juice-babyfood	PB	Tolerance	4.5	Average Field Trial	1.111382	1	established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated pineapple field trial data (MRID 47297204, 49179603).
O	Plantain	NB/PB	Tolerance	0.2	Tolerance	0.2	1	Established tolerance for residues in/on Banana (40 CFR §180.1). No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
O	Plantain, dried	B	Tolerance	0.2	Tolerance	0.2	4.8	
O	Quinoa, grain	B	Average Field Trial	0.467588889	Average Field Trial	0.467589	1	Established tolerance for residues in/on Quinoa, grain. Translated from barley data. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48681702 (Barley grain)
O	Spearmint	B	Tolerance	10	Tolerance	10	1	Established tolerance for residues in/on Spearmint, tops; recommended tolerance for residues in/on Spearmint, fresh leaves. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment.
O	Spearmint, oil	B	Tolerance	10	Tolerance	10	1	

Table A.1. Summary of Residues Used in Acute and Chronic Assessments for Propiconazole.

DEEM Crop Group	DEEM Commodity	BC[1]	Acute Residue Data Source	Acute Residue	Chronic Residue Data Source	Chronic Residue	PF[2]	Comments
O	Sugarcane, sugar	B	Average Field Trial	0.1152375	Average Field Trial	0.1152375	1	Established tolerance for residues in/on Sugarcane, cane. A change to the tolerance level to reflect parent only is recommended by HED. Therefore, to account for all metabolites convertible to 2,4-DCBA for dietary risk assessment, field trial data were incorporated. MRID 48497001 (Sugarcane)
O	Sugarcane, sugar-babyfood	B	Average Field Trial	0.1152375	Average Field Trial	0.1152375	1	
O	Sugarcane, molasses	B	Average Field Trial	0.1152375	Average Field Trial	0.1152375	1	
O	Sugarcane, molasses-babyfood	B	Average Field Trial	0.1152375	Average Field Trial	0.1152375	1	
O	Tea, dried	B	Tolerance	4	Tolerance	4	8.3	Established tolerance for residues in/on Tea; recommended tolerance for residues in/on Tea, dried. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. A calculated metabolite conversion factor of 8.3x was incorporated to account for metabolites convertible to 2,4-DCBA.
O	Tea, instant	B	Tolerance	4	Tolerance	4	8.3	
O	Watercress	PB	Tolerance	6	Average Field Trial	2.087667	1	Established tolerance for residues in/on Watercress. No change to the tolerance level is recommended by HED. Therefore, the currently established tolerance level accounts for all metabolites convertible to 2,4-DCBA for dietary risk assessment. Incorporated watercress field trial data (MRID 49389904).

[1] BC= Blending Classification. B = Blended. NB = Not Blended. PB = Partially Blended.
[2] PF = Processing Factor.

Attachment 2. Tolerance Summary Table

Table A.2. Summary of Tolerance Revisions for Propiconazole (40 CFR §180.434)[1].			
Commodity/ **Correct Commodity Definition**	Established Tolerance (ppm)	Recommended Tolerance (ppm)	Comments
40 CFR §180.434(a)(1) *General*[2]			
Banana	0.2	0.2	No change recommended.
Bean, dry seed	0.40	0.4	Corrected value to be consistent with OECD Rounding Class Practice.
Bean, snap, succulent	--	0.7	Commodity definition correction. Corrected value to be consistent with OECD Rounding Class Practice.
Bean, snap	0.70	Remove	
Bean, succulent shelled	0.10	0.1	Corrected value to be consistent with OECD Rounding Class Practice.
Beet, garden, leaves	--	5.5	Commodity definition correction.[4]
Beet, garden, tops	5.5	Remove	
Beet, sugar, molasses	1.5	1.5	No change recommended.
Beet, sugar, roots	0.3	0.3	
Berry, low growing, subgroup 13-07G, except cranberry	--	1.3	Commodity definition correction.[4]
Low growing berry subgroup 13-07G, except cranberry	1.3	Remove	
***Brassica*, leafy greens, subgroup 4-16B, except watercress**	20	20	No change recommended.
Bushberry subgroup 13-07B	--	1	Commodity definition correction (editorial). Corrected value to be consistent with OECD Rounding Class Practice.
Bushberry, subgroup 13-07B	1.0	Remove	
Caneberry subgroup 13-07A	--	1	Commodity definition correction (editorial). Corrected value to be consistent with OECD Rounding Class Practice.
Caneberry, subgroup 13-07A	1.0	Remove	
Cattle, fat	0.05	0.05	No change recommended.
Cattle, kidney	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Cattle, liver	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Cattle, meat	0.05	0.05	No change recommended.
Cattle, meat byproducts, except liver and kidney	0.05	0.05	
Celtuce	5	5	
Cilantro, fresh leaves	--	13	Commodity definition correction.[4]
Cilantro, leaves	13	Remove	
Dill, seed	15	15	No change recommended.
Dillweed	--	30	Commodity definition correction.
Dillweed, fresh leaves	30	Remove	
Dillweed, dried leaves	80	80	No change recommended.
Fennel, Florence, fresh leaves and stalk	5	5	
Goat, fat	0.05	0.05	
Goat, kidney	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Goat, liver	2.0	2	Corrected value to be consistent with

Table A.2. Summary of Tolerance Revisions for Propiconazole (40 CFR §180.434)[1].			
Commodity/ **Correct Commodity Definition**	Established Tolerance (ppm)	Recommended Tolerance (ppm)	Comments
			OECD Rounding Class Practice.
Goat, meat	0.05	0.05	No change recommended.
Goat, meat byproducts, except liver and kidney	0.05	0.05	
Hog, kidney	0.2	0.2	
Hog, liver	0.2	0.2	
Horse, fat	0.05	0.05	
Horse, kidney	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Horse, liver	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Horse, meat	0.05	0.05	No change recommended.
Horse, meat byproducts, except liver and kidney	0.05	0.05	
Leaf petiole vegetable subgroup 22B	5	5	
Milk	0.05	0.05	
Nut, tree, group 14-12	0.10	0.1	Corrected value to be consistent with OECD Rounding Class Practice.
Onion, bulb, subgroup 3-07A	--	0.2	Commodity definition correction (editorial).
Onion, bulb subgroup 3-07A	0.2	Remove	
Onion, green, subgroup 3-07B	9.0	9	Corrected value to be consistent with OECD Rounding Class Practice.
Parsley, fresh leaves	13	13	No change recommended.
Parsley, dried leaves	35	35	
Peanut	0.2	0.2	
Peppermint, fresh leaves	--	10	Commodity definition correction. Corrected value to be consistent with OECD Rounding Class Practice.
Peppermint, tops	10.0	Remove	
Pineapple	4.5	4.5	No change recommended.[4]
Radish, tops	0.20	Remove	There is an established tolerance for residues in/on *Brassica*, leafy greens, subgroup 4-16B, except watercress. Radish leaves are included in this crop subgroup. Therefore, a separate tolerance for residues in/on Radish, tops is unnecessary.
Rice, bran	15	15	No change recommended.
Rice, grain	7.0	7	Corrected value to be consistent with OECD Rounding Class Practice.
Sheep, fat	0.05	0.05	No change recommended.
Sheep, kidney	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Sheep, liver	2.0	2	Corrected value to be consistent with OECD Rounding Class Practice.
Sheep, meat	0.05	0.05	No change recommended.
Sheep, meat byproducts, except liver and kidney	0.05	0.05	
Sorghum, grain, grain	3.5	3.5	No change recommended.[4]
Spearmint, fresh leaves	--	10	Corrected value to be consistent with OECD Rounding Class Practice.
Spearmint, tops	10.0	Remove	

Table A.2. Summary of Tolerance Revisions for Propiconazole (40 CFR §180.434)[1].			
Commodity/ **Correct Commodity Definition**	Established Tolerance (ppm)	Recommended Tolerance (ppm)	Comments
Swiss chard	5	5	No change recommended.
Vegetable, root, except sugar beet, subgroup 1B	0.3	0.3	No change recommended.
Watercress	6.0	6	Corrected value to be consistent with OECD Rounding Class Practice.
40 CFR §180.434(a)(2) *General*[2]			
Avocado	0.2	0.015	Tolerance level changed to reflect parent only (propiconazole) based on avocado residue data (MRID 5045601). Tolerance level calculated using the Organization for Economic Cooperation and Development maximum residue limit (OECD MRL) calculation procedures.
Barley, bran	6.0	Remove	Tolerance level changed to reflect parent only (propiconazole) based on barley and wheat residue data (MRIDs 48681702 & 48681704). A tolerance for barley bran is unnecessary based on the available barley magnitude of the residue data and wheat processing data. There are no available barley processing data. The HAFT for residues of parent propiconazole (1.12 ppm) for barley grain in combination with the average processing factor for wheat bran (1.6x) results in a recommended tolerance of 2 ppm using OECD rounding classes, which is the same recommended tolerance level for barley grain. Therefore, residues in/on barley bran are covered by the recommended tolerance for residues in/on barley grain.
Barley, grain	3.0	2	Tolerance level changed to reflect parent only (propiconazole) based on barley residue data (MRID 48681702). Tolerance level calculated using the OECD MRL calculation procedures.
Cherry subgroup 12-12A	--	3	Commodity definition correction. Harmonization with Codex. HED is recommending for the establishment of separate tolerances for residues in/on crop subgroups 12-12A, 12-12B, and 12-12C. The recommended tolerances resulting from representative crop residue data for crop subgroup 12-12 (cherry,
Fruit, stone, group 12-12, except plum	4.0	Remove	

Table A.2. Summary of Tolerance Revisions for Propiconazole (40 CFR §180.434)[1].			
Commodity/ **Correct Commodity Definition**	Established Tolerance (ppm)	Recommended Tolerance (ppm)	Comments
			peach, plum) are not within 5X. Therefore, tolerances for residues in/on the crop subgroups are appropriate. The OECD MRL Calculator recommends a tolerance level of 2 ppm for cherry subgroup 12-12A; however, HED is recommending a tolerance level increase to harmonize with Codex.
Corn, field, grain	0.2	0.05	Harmonization with Codex.
Corn, pop, grain	0.2	0.05	Harmonization with Codex.
Corn, sweet, kernel plus cob with husks removed	0.1	0.05	Harmonization with Codex.
Fruit, citrus, group 10-10	8.0	8	Corrected value to be consistent with OECD Rounding Class Practice. The established tolerance level already reflects residues of parent propiconazole only.
Fruit, citrus, group 10-10, oil	--	1000	Commodity definition correction. The established tolerance level already reflects residues of parent propiconazole only.
Citrus, oil	1000	Remove	
Oat, grain	3.0	0.7	Tolerance levels changed to reflect parent only (propiconazole) based on oat residue data (MRID 48681703). Tolerance levels calculated using the OECD MRL calculation procedures.
Peach subgroup 12-12B	--	5	Commodity definition correction. Harmonization with Codex. HED is recommending for the establishment of separate tolerances for residues in/on crop subgroups 12-12A, 12-12B, and 12-12C. The recommended tolerances resulting from representative crop residue data for crop subgroup 12-12 (cherry, peach, plum) are not within 5X. Therefore, tolerances for residues in/on the crop subgroups are appropriate. The OECD MRL Calculator recommends a tolerance level of 4 ppm for peach subgroup 12-12B; however, HED is recommending a tolerance level increase to harmonize with Codex. The OECD MRL Calculator recommends a tolerance level of 0.6 ppm for plum subgroup 12-12C; however, HED is recommending to
Plum subgroup 12-12C	--	0.4	
Fruit, stone, group 12-12, except plum	4.0	Remove	
Plum	0.60	Remove	

Table A.2. Summary of Tolerance Revisions for Propiconazole (40 CFR §180.434)[1].			
Commodity/ **Correct Commodity Definition**	Established Tolerance (ppm)	Recommended Tolerance (ppm)	Comments
			harmonize with Codex.
Rapeseed subgroup 20A	0.30	0.02	Tolerance level changed to reflect parent only (propiconazole) based on canola residue data (MRID 48604486). The OECD MRL Calculator recommends a tolerance level of 0.015 ppm; however, HED is recommending to harmonize with Codex.
Quinoa, grain	3.0	0.09	Tolerance level changed to reflect parent only (propiconazole) based on wheat residue data (MRID 48681704). The Chemistry Science Advisory Council (ChemSAC) previously approved the commodity definitions for individual commodities of the proposed new cereal grain crop group (see minutes from the 4/8/2020 meeting). The ChemSAC approved inclusion of quinoa in the proposed wheat crop subgroup; therefore, tolerances for residues in/on barley grain should be extrapolated from wheat grain. Tolerance level calculated using the OECD MRL calculation procedures.
Rye, bran	0.6	0.15	Tolerance level changed to reflect parent only (propiconazole) based on wheat residue data (MRID 48681704). The HAFT for residues of parent propiconazole (0.0779 ppm) for wheat grain in combination with the average processing factor for wheat bran (1.6x) results in a recommended tolerance of 0.15 ppm using OECD rounding classes.
Rye, grain	0.3	0.09	Tolerance level changed to reflect parent only (propiconazole) based on wheat grain residue data (MRID 48681704). Tolerance level calculated using the OECD MRL calculation procedures.
Soybean, seed	2.0	0.07	Harmonization with Codex.
Sugarcane, cane	0.4	0.3	Tolerance level changed to reflect parent only (propiconazole) based on sugarcane residue data (MRID 48497001). Tolerance level calculated using the OECD MRL calculation procedures.
Tea, dried[2, 3]	--	4	Commodity definition correction.

Table A.2. Summary of Tolerance Revisions for Propiconazole (40 CFR §180.434)[1].			
Commodity/ **Correct Commodity Definition**	Established Tolerance (ppm)	Recommended Tolerance (ppm)	Comments
Tea[2, 3]	4.0	Remove	The existing residue data are on processed (dried) tea (MRID 49432901). The established tolerance level already reflects residues of parent propiconazole only. Corrected value to be consistent with OECD Rounding Class Practice.
Tomato	3.0	3	Corrected value to be consistent with OECD Rounding Class Practice. The established tolerance level already reflects residues of parent propiconazole only.
Wheat, bran	0.6	0.15	Tolerance level changed to reflect parent only (propiconazole) based on wheat residue data (MRID 48681704). The HAFT for residues of parent propiconazole (0.0779 ppm) for wheat grain in combination with the average processing factor for wheat bran (1.6x) results in a recommended tolerance of 0.15 ppm using OECD rounding classes.
Wheat, grain	0.3	0.09	Tolerance level changed to reflect parent only (propiconazole) based on wheat grain residue data (MRID 48681704). Tolerance level calculated using the OECD MRL calculation procedures.
40 CFR §180.434(c)(1) *Tolerances with Regional Registrations*[2]			
Rice, wild, grain	0.5	0.5	No change recommended.
40 CFR §180.434(c)(2) *Tolerances with Regional Registrations*[2]			
Cranberry	1.0	0.3	Harmonization with Codex.

[1] Contains only food commodities relevant to dietary assessment; feed commodities are excluded from this table. For full details, refer to: D456089, J. Camp et al., 12/14/2020.

[2] HED is recommending amending the tolerance expression to include only propiconazole. Therefore, various recommended tolerances reflecting parent only should be moved to 40 CFR §180.434(a)(2) and 40 CFR §180.434(c)(2).

[3] There are no United States registrations for use of propiconazole on tea as of December 24, 2015.

[4] Although the recommended tolerance level is not consistent with OECD Rounding Class Practice, HED is recommending retaining the established tolerance level to be consistent with Canadian MRLs to avoid trade irritant potential.

Attachment 3. Acute Food and Water Residue Input File

```
 Filename: C:\Users\JCamp\OneDrive - Environmental Protection Agency
(EPA)\Chemicals\Propiconazole\Reg Review 2019-2020\Dietary Memo\Propiconazole_Registration
Review_Acute.R08
Chemical: Propiconazole
RfD(Chronic): .18 mg/kg bw/day  NOEL(Chronic): 18.1 mg/kg bw/day
RfD(Acute): 1 mg/kg bw/day  NOEL(Acute):  100 mg/kg bw/day
Date created/last modified: 09-10-2020/08:44:08       Program ver. 3.16, 03-08-d
Comment: Registration Review
```

EPA Code	Crop Grp	Commodity Name	Def Res (ppm)	Adj.Factors #1	#2	Comment
0101050000	1AB	Beet, garden, roots	0.300000	1.000	1.000	
0101050001	1AB	Beet, garden, roots-babyfood	0.300000	1.000	1.000	
0101052000	1A	Beet, sugar	0.300000	1.000	1.000	
0101052001	1A	Beet, sugar-babyfood	0.300000	1.000	1.000	
0101053000	1A	Beet, sugar, molasses	1.500000	1.000	1.000	
0101053001	1A	Beet, sugar, molasses-babyfood	1.500000	1.000	1.000	
0101067000	1AB	Burdock	0.300000	1.000	1.000	
0101078000	1AB	Carrot	0.300000	1.000	1.000	
0101078001	1AB	Carrot-babyfood	0.300000	1.000	1.000	
0101079000	1AB	Carrot, juice	0.300000	1.400	1.000	
0101084000	1AB	Celeriac	0.300000	1.000	1.000	
0101100000	1AB	Chicory, roots	0.300000	1.000	1.000	
0101168000	1AB	Ginseng, dried	0.300000	1.000	1.000	
0101190000	1AB	Horseradish	0.300000	1.000	1.000	
0101250000	1AB	Parsley, turnip rooted	0.300000	1.000	1.000	
0101251000	1AB	Parsnip	0.300000	1.000	1.000	
0101251001	1AB	Parsnip-babyfood	0.300000	1.000	1.000	
0101314000	1AB	Radish, roots	0.300000	1.000	1.000	
0101316000	1AB	Radish, Oriental, roots	0.300000	1.000	1.000	
0101327000	1AB	Rutabaga	0.300000	1.000	1.000	
0101331000	1AB	Salsify, roots	0.300000	1.000	1.000	
0101388000	1AB	Turnip, roots	0.300000	1.000	1.000	
0200051000	2	Beet, garden, tops	0.300000	1.000	1.000	
0200315000	2	Radish, tops	20.000000	1.000	1.000	
0200317000	2	Radish, Oriental, tops	20.000000	1.000	1.000	
0301165000	3A	Garlic, bulb	0.200000	1.000	1.000	
0301165001	3A	Garlic, bulb-babyfood	0.200000	1.000	1.000	
0301237000	3A	Onion, bulb	0.200000	1.000	1.000	
0301237001	3A	Onion, bulb-babyfood	0.200000	1.000	1.000	
0301238000	3A	Onion, bulb, dried	0.200000	9.700	1.000	
0301238001	3A	Onion, bulb, dried-babyfood	0.200000	9.700	1.000	
0301338000	3A	Shallot, bulb	0.200000	1.000	1.000	
0302103000	3B	Chive, fresh leaves	9.000000	1.000	1.000	
0302198000	3B	Leek	9.000000	1.000	1.000	
0302239000	3B	Onion, green	9.000000	1.000	1.000	
0302338500	3B	Shallot, fresh leaves	9.000000	1.000	1.000	
0401018000	4A	Arugula	20.000000	1.000	1.000	
0401133000	4A	Cress, garden	20.000000	1.000	1.000	
0401134000	4A	Cress, upland	20.000000	1.000	1.000	
0401248000	4A	Parsley, leaves	13.000000	1.000	1.000	
0402076000	4B	Cardoon	5.000000	1.000	1.000	
0402085000	4B	Celery	5.000000	1.000	1.000	
0402085001	4B	Celery-babyfood	5.000000	1.000	1.000	
0402086000	4B	Celery, juice	5.000000	1.400	1.000	
0402087000	4B	Celtuce	5.000000	1.000	1.000	
0402152000	4B	Fennel, Florence	5.000000	1.000	1.000	
0402322000	4B	Rhubarb	5.000000	1.000	1.000	
0402367000	4B	Swiss chard	5.000000	1.000	1.000	
0501062000	5A	Broccoli, Chinese	20.000000	1.000	1.000	
0502063000	5B	Broccoli raab	20.000000	1.000	1.000	
0502070000	5B	Cabbage, Chinese, bok choy	20.000000	1.000	1.000	
0502117000	5B	Collards	20.000000	1.000	1.000	

0502194000	5B	Kale	20.000000	1.000	1.000
0502229000	5B	Mustard greens	20.000000	1.000	1.000
0502318000	5B	Rape greens	20.000000	1.000	1.000
0502389000	5B	Turnip, greens	20.000000	1.000	1.000
0600347000	6	Soybean, seed	0.375000	1.000	1.000
0600349000	6	Soybean, soy milk	0.375000	1.000	1.000
0600349001	6	Soybean, soy milk-babyfood or in	0.375000	1.000	1.000
0600350000	6	Soybean, oil	0.375000	1.000	1.000
0600350001	6	Soybean, oil-babyfood	0.375000	1.000	1.000
0601043000	6A	Bean, snap, succulent	0.700000	1.000	1.000
0601043001	6A	Bean, snap, succulent-babyfood	0.700000	1.000	1.000
0602031000	6B	Bean, broad, succulent	0.100000	1.000	1.000
0602033000	6B	Bean, cowpea, succulent	0.100000	1.000	1.000
0602037000	6B	Bean, lima, succulent	0.100000	1.000	1.000
0603030000	6C	Bean, black, seed	0.400000	1.000	1.000
0603032000	6C	Bean, broad, seed	0.400000	1.000	1.000
0603034000	6C	Bean, cowpea, seed	0.400000	1.000	1.000
0603035000	6C	Bean, great northern, seed	0.400000	1.000	1.000
0603036000	6C	Bean, kidney, seed	0.400000	1.000	1.000
0603038000	6C	Bean, lima, seed	0.400000	1.000	1.000
0603039000	6C	Bean, mung, seed	0.400000	1.000	1.000
0603040000	6C	Bean, navy, seed	0.400000	1.000	1.000
0603041000	6C	Bean, pink, seed	0.400000	1.000	1.000
0603042000	6C	Bean, pinto, seed	0.400000	1.000	1.000
0603098000	6C	Chickpea, seed	0.400000	1.000	1.000
0603098001	6C	Chickpea, seed-babyfood	0.400000	1.000	1.000
0603099000	6C	Chickpea, flour	0.400000	1.000	1.000
0603348000	6C	Soybean, flour	0.375000	2.200	1.000
0603348001	6C	Soybean, flour-babyfood	0.375000	2.200	1.000
0801374000	8A	Tomatillo	1.760000	1.000	1.000
0801375000	8A	Tomato	1.760000	1.000	1.000
0801375001	8A	Tomato-babyfood	1.760000	1.000	1.000
0801376000	8A	Tomato, paste	0.789042	1.000	1.000
0801376001	8A	Tomato, paste-babyfood	0.789042	1.000	1.000
0801377000	8A	Tomato, puree	0.789042	1.000	1.000
0801377001	8A	Tomato, puree-babyfood	0.789042	1.000	1.000
0801378000	8A	Tomato, dried	0.789042	14.300	1.000
0801378001	8A	Tomato, dried-babyfood	0.789042	14.300	1.000
0801379000	8A	Tomato, juice	1.760000	1.000	1.000
0801380000	8A	Tomato, Tree	1.760000	1.000	1.000
1001106000	10A	Citron	6.792000	1.000	1.000
1001107000	10A	Citrus hybrids	6.792000	1.000	1.000
1001108000	10A	Citrus, oil	1000.	1.200	1.000
1001240000	10A	Orange	6.792000	1.000	1.000
1001241000	10A	Orange, juice	6.792000	1.000	1.000
1001241001	10A	Orange, juice-babyfood	6.792000	1.000	1.000
1001242000	10A	Orange, peel	6.792000	3.300	1.000
1001369000	10A	Tangerine	6.792000	1.000	1.000
1001370000	10A	Tangerine, juice	6.792000	1.000	1.000
1002197000	10B	Kumquat	8.208000	1.000	1.000
1002199000	10B	Lemon	8.208000	1.000	1.000
1002200000	10B	Lemon, juice	8.208000	1.000	1.000
1002200001	10B	Lemon, juice-babyfood	8.208000	1.000	1.000
1002201000	10B	Lemon, peel	8.208000	3.300	1.000
1002206000	10B	Lime	8.208000	1.000	1.000
1002207000	10B	Lime, juice	8.208000	1.000	1.000
1002207001	10B	Lime, juice-babyfood	8.208000	1.000	1.000
1003180000	10C	Grapefruit	3.420000	1.000	1.000
1003181000	10C	Grapefruit, juice	3.420000	1.000	1.000
1003307000	10C	Pummelo	3.420000	1.000	1.000
1201090000	12A	Cherry	2.230000	1.000	1.000
1201090001	12A	Cherry-babyfood	2.230000	1.000	1.000
1201091000	12A	Cherry, juice	2.230000	1.500	1.000
1201091001	12A	Cherry, juice-babyfood	2.230000	1.500	1.000
1202012000	12B	Apricot	2.520000	1.000	1.000
1202012001	12B	Apricot-babyfood	2.520000	1.000	1.000
1202013000	12B	Apricot, dried	1.133333	6.000	1.000

1202014000	12B	Apricot, juice	2.520000	1.300	1.000
1202014001	12B	Apricot, juice-babyfood	2.520000	1.300	1.000
1202230000	12B	Nectarine	2.520000	1.000	1.000
1202260000	12B	Peach	2.520000	1.000	1.000
1202260001	12B	Peach-babyfood	2.520000	1.000	1.000
1202261000	12B	Peach, dried	1.133333	7.000	1.000
1202261001	12B	Peach, dried-babyfood	1.133333	7.000	1.000
1202262000	12B	Peach, juice	2.520000	1.300	1.000
1202262001	12B	Peach, juice-babyfood	2.520000	1.300	1.000
1203285000	12C	Plum	0.400000	1.000	1.000
1203285001	12C	Plum-babyfood	0.400000	1.000	1.000
1203286000	12C	Plum, prune, fresh	0.400000	1.000	1.000
1203286001	12C	Plum, prune, fresh-babyfood	0.400000	1.000	1.000
1203287000	12C	Plum, prune, dried	0.400000	1.000	1.000
1203287001	12C	Plum, prune, dried-babyfood	0.400000	1.000	1.000
1203288000	12C	Plum, prune, juice	0.400000	1.400	1.000
1203288001	12C	Plum, prune, juice-babyfood	0.400000	1.400	1.000
1301055000	13A	Blackberry	1.000000	1.000	1.000
1301056000	13A	Blackberry, juice	1.000000	1.200	1.000
1301056001	13A	Blackberry, juice-babyfood	1.000000	1.200	1.000
1301058000	13A	Boysenberry	1.000000	1.000	1.000
1301208000	13A	Loganberry	1.000000	1.000	1.000
1301320000	13A	Raspberry	1.000000	1.000	1.000
1301320001	13A	Raspberry-babyfood	1.000000	1.000	1.000
1301321000	13A	Raspberry, juice	1.000000	1.200	1.000
1301321001	13A	Raspberry, juice-babyfood	1.000000	1.200	1.000
1302057000	13B	Blueberry	1.000000	1.000	1.000
1302057001	13B	Blueberry-babyfood	1.000000	1.000	1.000
1302136000	13B	Currant	1.000000	1.000	1.000
1302137000	13B	Currant, dried	1.000000	6.500	1.000
1302149000	13B	Elderberry	1.000000	1.000	1.000
1302174000	13B	Gooseberry	1.000000	1.000	1.000
1302191000	13B	Huckleberry	1.000000	1.000	1.000
1307130000	13G	Cranberry	0.590000	1.000	1.000
1307130001	13G	Cranberry-babyfood	0.590000	1.000	1.000
1307131000	13G	Cranberry, dried	0.590000	7.900	1.000
1307132000	13G	Cranberry, juice	0.590000	1.200	1.000
1307132001	13G	Cranberry, juice-babyfood	0.590000	1.200	1.000
1307359000	13G	Strawberry	1.300000	1.000	1.000
1307359001	13G	Strawberry-babyfood	1.300000	1.000	1.000
1307360000	13G	Strawberry, juice	1.300000	1.200	1.000
1307360001	13G	Strawberry, juice-babyfood	1.300000	1.200	1.000
1400003000	14	Almond	0.100000	1.000	1.000
1400003001	14	Almond-babyfood	0.100000	1.000	1.000
1400004000	14	Almond, oil	0.100000	2.800	1.000
1400004001	14	Almond, oil-babyfood	0.100000	2.800	1.000
1400059000	14	Brazil nut	0.100000	1.000	1.000
1400068000	14	Butternut	0.100000	1.000	1.000
1400081000	14	Cashew	0.100000	1.000	1.000
1400092000	14	Chestnut	0.100000	1.000	1.000
1400155000	14	Hazelnut	0.100000	1.000	1.000
1400156000	14	Hazelnut, oil	0.100000	1.800	1.000
1400185000	14	Hickory nut	0.100000	1.000	1.000
1400213000	14	Macadamia nut	0.100000	1.000	1.000
1400269000	14	Pecan	0.100000	1.000	1.000
1400278000	14	Pine nut	0.100000	1.000	1.000
1400282000	14	Pistachio	0.100000	1.000	1.000
1400391000	14	Walnut	0.100000	1.000	1.000
1500025000	15	Barley, pearled barley	0.467589	1.000	1.000
1500025001	15	Barley, pearled barley-babyfood	0.467589	1.000	1.000
1500026000	15	Barley, flour	0.467589	1.000	1.000
1500026001	15	Barley, flour-babyfood	0.467589	1.000	1.000
1500027000	15	Barley, bran	0.467589	1.000	1.000
1500120000	15	Corn, field, flour	0.055417	1.000	1.000
1500120001	15	Corn, field, flour-babyfood	0.055417	1.000	1.000
1500121000	15	Corn, field, meal	0.055417	1.000	1.000
1500121001	15	Corn, field, meal-babyfood	0.055417	1.000	1.000

1500122000	15	Corn, field, bran	0.055417	21.400	1.000
1500123000	15	Corn, field, starch	0.055417	1.000	1.000
1500123001	15	Corn, field, starch-babyfood	0.055417	1.000	1.000
1500124000	15	Corn, field, syrup	0.055417	1.000	1.000
1500124001	15	Corn, field, syrup-babyfood	0.055417	1.000	1.000
1500125000	15	Corn, field, oil	0.055417	1.000	1.000
1500125001	15	Corn, field, oil-babyfood	0.055417	1.000	1.000
1500126000	15	Corn, pop	0.055417	1.000	1.000
1500127000	15	Corn, sweet	0.060000	1.000	1.000
1500127001	15	Corn, sweet-babyfood	0.060000	1.000	1.000
1500231000	15	Oat, bran	0.512867	7.700	1.000
1500232000	15	Oat, flour	0.512867	1.000	1.000
1500232001	15	Oat, flour-babyfood	0.512867	1.000	1.000
1500233000	15	Oat, groats/rolled oats	0.512867	1.000	1.000
1500233001	15	Oat, groats/rolled oats-babyfood	0.512867	1.000	1.000
1500323000	15	Rice, white	7.000000	1.000	1.000
1500323001	15	Rice, white-babyfood	7.000000	1.000	1.000
1500324000	15	Rice, brown	7.000000	1.250	1.000
1500324001	15	Rice, brown-babyfood	7.000000	1.250	1.000
1500325000	15	Rice, flour	7.000000	1.250	1.000
1500325001	15	Rice, flour-babyfood	7.000000	1.250	1.000
1500326000	15	Rice, bran	15.000000	1.000	1.000
1500326001	15	Rice, bran-babyfood	15.000000	1.000	1.000
1500328000	15	Rye, grain	0.070500	1.000	1.000
1500329000	15	Rye, flour	0.070500	1.000	1.000
1500344000	15	Sorghum, grain	3.500000	1.000	1.000
1500345000	15	Sorghum, syrup	3.500000	1.000	1.000
1500381000	15	Triticale, flour	0.070500	1.000	1.000
1500381001	15	Triticale, flour-babyfood	0.070500	1.000	1.000
1500401000	15	Wheat, grain	0.070500	1.000	1.000
1500401001	15	Wheat, grain-babyfood	0.070500	1.000	1.000
1500402000	15	Wheat, flour	0.070500	1.000	1.000
1500402001	15	Wheat, flour-babyfood	0.070500	1.000	1.000
1500403000	15	Wheat, germ	0.070500	1.000	1.000
1500404000	15	Wheat, bran	0.333500	1.000	1.000
1500405000	15	Wild rice	0.500000	1.000	1.000
1901118000	19A	Cilantro, leaves	13.000000	1.000	1.000
1901118001	19A	Cilantro, leaves-babyfood	13.000000	1.000	1.000
1901144000	19A	Dillweed	80.000000	1.000	1.000
1901249000	19A	Parsley, dried leaves	35.000000	1.000	1.000
1901249001	19A	Parsley, dried leaves-babyfood	35.000000	1.000	1.000
1902143000	19B	Dill, seed	15.000000	1.000	1.000
2001163000	20A	Flax seed, oil	0.086906	0.200	1.000
2001319000	20A	Rapeseed, oil	0.086906	0.200	1.000
2001319001	20A	Rapeseed, oil-babyfood	0.086906	0.200	1.000
2001336000	20A	Sesame, seed	0.086906	1.000	1.000
2001336001	20A	Sesame, seed-babyfood	0.086906	1.000	1.000
2001337000	20A	Sesame, oil	0.086906	0.200	1.000
2001337001	20A	Sesame, oil-babyfood	0.086906	0.200	1.000
2003114001	20C	Coconut, oil-babyfood	0.100000	2.900	1.000
2100228000	21	Mushroom	0.100000	1.000	1.000
3100044000	31	Beef, meat	0.050000	1.000	1.000
3100044001	31	Beef, meat-babyfood	0.050000	1.000	1.000
3100045000	31	Beef, meat, dried	0.050000	1.920	1.000
3100046000	31	Beef, meat byproducts	0.050000	1.000	1.000
3100046001	31	Beef, meat byproducts-babyfood	0.050000	1.000	1.000
3100047000	31	Beef, fat	0.050000	1.000	1.000
3100047001	31	Beef, fat-babyfood	0.050000	1.000	1.000
3100048000	31	Beef, kidney	2.000000	1.000	1.000
3100049000	31	Beef, liver	2.000000	1.000	1.000
3100049001	31	Beef, liver-babyfood	2.000000	1.000	1.000
3200169000	32	Goat, meat	0.050000	1.000	1.000
3200170000	32	Goat, meat byproducts	0.050000	1.000	1.000
3200171000	32	Goat, fat	0.050000	1.000	1.000
3200172000	32	Goat, kidney	2.000000	1.000	1.000
3200173000	32	Goat, liver	2.000000	1.000	1.000
3300189000	33	Horse, meat	0.050000	1.000	1.000

3400294000	34	Pork, kidney	0.200000	1.000	1.000
3400295000	34	Pork, liver	0.200000	1.000	1.000
3500339000	35	Sheep, meat	0.050000	1.000	1.000
3500339001	35	Sheep, meat-babyfood	0.050000	1.000	1.000
3500340000	35	Sheep, meat byproducts	0.050000	1.000	1.000
3500341000	35	Sheep, fat	0.050000	1.000	1.000
3500341001	35	Sheep, fat-babyfood	0.050000	1.000	1.000
3500342000	35	Sheep, kidney	2.000000	1.000	1.000
3500343000	35	Sheep, liver	2.000000	1.000	1.000
3600222000	36	Milk, fat	0.050000	1.000	1.000
3600222001	36	Milk, fat-baby food/infant formu	0.050000	1.000	1.000
3600223000	36	Milk, nonfat solids	0.050000	1.000	1.000
3600223001	36	Milk, nonfat solids-baby food/in	0.050000	1.000	1.000
3600224000	36	Milk, water	0.050000	1.000	1.000
3600224001	36	Milk, water-babyfood/infant form	0.050000	1.000	1.000
3600225001	36	Milk, sugar (lactose)-baby food/	0.050000	1.000	1.000
3800221000	38	Meat, game	0.050000	1.000	1.000
3900312000	39	Rabbit, meat	0.050000	1.000	1.000
8601000000	86A	Water, direct, all sources	0.037900	1.000	1.000
8602000000	86B	Water, indirect, all sources	0.037900	1.000	1.000
9500020000	O	Avocado	0.227000	1.000	1.000
9500023000	O	Banana	0.200000	1.000	1.000
9500023001	O	Banana-babyfood	0.200000	1.000	1.000
9500024000	O	Banana, dried	0.200000	4.800	1.000
9500024001	O	Banana, dried-babyfood	0.200000	4.800	1.000
9500111000	O	Coconut, meat	0.100000	2.100	1.000
9500111001	O	Coconut, meat-babyfood	0.100000	2.100	1.000
9500112000	O	Coconut, dried	0.100000	2.100	1.000
9500113000	O	Coconut, milk	0.100000	4.000	1.000
9500114000	O	Coconut, oil	0.100000	2.900	1.000
9500263000	O	Peanut	0.200000	1.000	1.000
9500264000	O	Peanut, butter	0.200000	1.200	1.000
9500265000	O	Peanut, oil	0.200000	1.000	1.000
9500275000	O	Peppermint	10.000000	1.000	1.000
9500276000	O	Peppermint, oil	10.000000	1.000	1.000
9500279000	O	Pineapple	4.500000	1.000	1.000
9500279001	O	Pineapple-babyfood	4.500000	1.000	1.000
9500280000	O	Pineapple, dried	4.500000	7.300	1.000
9500281000	O	Pineapple, juice	4.500000	1.000	1.000
9500281001	O	Pineapple, juice-babyfood	4.500000	1.000	1.000
9500283000	O	Plantain	0.200000	1.000	1.000
9500284000	O	Plantain, dried	0.200000	4.800	1.000
9500311000	O	Quinoa, grain	0.467589	1.000	1.000
9500352000	O	Spearmint	10.000000	1.000	1.000
9500353000	O	Spearmint, oil	10.000000	1.000	1.000
9500362000	O	Sugarcane, sugar	0.115238	1.000	1.000
9500362001	O	Sugarcane, sugar-babyfood	0.115238	1.000	1.000
9500363000	O	Sugarcane, molasses	0.115238	1.000	1.000
9500363001	O	Sugarcane, molasses-babyfood	0.115238	1.000	1.000
9500372000	O	Tea, dried	4.000000	8.300	1.000
9500373000	O	Tea, instant	4.000000	8.300	1.000
9500398000	O	Watercress	6.000000	1.000	1.000

Attachment 4. Acute Food and Water Results File

```
US EPA                                                          Ver. 3.18, 03-08-d
DEEM-FCID ACUTE Analysis for PROPICONAZOLE                NHANES 2003-2008 2-Day
Residue file: Propiconazole_Registration Review_Acute.R08
Adjustment factor #2 NOT used.
Analysis Date: 09-10-2020/09:09:57    Residue file dated: 09-10-2020/08:44:08
NOEL (Acute) = 100.000000 mg/kg body-wt/day
RAC/FF intake summed over 24 hours
Run Comment: "Registration Review"
================================================================================

Summary calculations--per capita:

---   95th Percentile----   ---   99th Percentile----     ---99.9th Percentile----
 Exposure  % aRfD     MOE    Exposure  % aRfD     MOE    Exposure  % aRfD     MOE
---------- ------- -------- ---------- ------- -------- ---------- ------- --------
Total US Population:
  0.057335    5.73    1744    0.120854   12.09     827    0.301645   30.16     331
All Infants:
  0.079980    8.00    1250    0.146810   14.68     681    0.283025   28.30     353
Children 1-2:
  0.185969   18.60     537    0.354791   35.48     281    0.636142   63.61     157
Children 3-5:
  0.151276   15.13     661    0.264264   26.43     378    0.437991   43.80     228
Children 6-12:
  0.080390    8.04    1243    0.153294   15.33     652    0.348875   34.89     286
Youth 13-19:
  0.055660    5.57    1796    0.095690    9.57    1045    0.166291   16.63     601
Adults 20-49:
  0.044984    4.50    2223    0.079008    7.90    1265    0.144454   14.45     692
Adults 50-99:
  0.038703    3.87    2583    0.070351    7.04    1421    0.134445   13.44     743
Female 13-49:
  0.044480    4.45    2248    0.076418    7.64    1308    0.124621   12.46     802
```

Attachment 5. Chronic Food and Water Residue Input File

```
Filename: C:\Users\JCamp\OneDrive - Environmental Protection Agency
(EPA)\Chemicals\Propiconazole\Reg Review 2019-2020\Dietary Memo\Propiconazole_Registration
Review_Chronic.R08
Chemical: Propiconazole
RfD(Chronic): .18 mg/kg bw/day  NOEL(Chronic): 18.1 mg/kg bw/day
RfD(Acute): 1 mg/kg bw/day  NOEL(Acute):  100 mg/kg bw/day
Date created/last modified: 09-10-2020/08:39:29       Program ver. 3.16, 03-08-d
Comment: Registration Review
```

EPA Code	Crop Grp	Commodity Name	Def Res (ppm)	Adj.Factors #1	#2	Comment
0101050000	1AB	Beet, garden, roots	0.056521	1.000	1.000	
0101050001	1AB	Beet, garden, roots-babyfood	0.056521	1.000	1.000	
0101052000	1A	Beet, sugar	0.073667	1.000	1.000	
0101052001	1A	Beet, sugar-babyfood	0.073667	1.000	1.000	
0101053000	1A	Beet, sugar, molasses	1.500000	1.000	1.000	
0101053001	1A	Beet, sugar, molasses-babyfood	1.500000	1.000	1.000	
0101067000	1AB	Burdock	0.056521	1.000	1.000	
0101078000	1AB	Carrot	0.100714	1.000	1.000	
0101078001	1AB	Carrot-babyfood	0.100714	1.000	1.000	
0101079000	1AB	Carrot, juice	0.100714	1.400	1.000	
0101084000	1AB	Celeriac	0.056521	1.000	1.000	
0101100000	1AB	Chicory, roots	0.100714	1.000	1.000	
0101168000	1AB	Ginseng, dried	0.100714	1.000	1.000	
0101190000	1AB	Horseradish	0.100714	1.000	1.000	
0101250000	1AB	Parsley, turnip rooted	0.100714	1.000	1.000	
0101251000	1AB	Parsnip	0.100714	1.000	1.000	
0101251001	1AB	Parsnip-babyfood	0.100714	1.000	1.000	
0101314000	1AB	Radish, roots	0.056521	1.000	1.000	
0101316000	1AB	Radish, Oriental, roots	0.056521	1.000	1.000	
0101327000	1AB	Rutabaga	0.056521	1.000	1.000	
0101331000	1AB	Salsify, roots	0.100714	1.000	1.000	
0101388000	1AB	Turnip, roots	0.056521	1.000	1.000	
0200051000	2	Beet, garden, tops	0.300000	1.000	1.000	
0200315000	2	Radish, tops	4.076222	1.000	1.000	
0200317000	2	Radish, Oriental, tops	4.076222	1.000	1.000	
0301165000	3A	Garlic, bulb	0.066071	1.000	1.000	
0301165001	3A	Garlic, bulb-babyfood	0.066071	1.000	1.000	
0301237000	3A	Onion, bulb	0.066071	1.000	1.000	
0301237001	3A	Onion, bulb-babyfood	0.066071	1.000	1.000	
0301238000	3A	Onion, bulb, dried	0.066071	9.700	1.000	
0301238001	3A	Onion, bulb, dried-babyfood	0.066071	9.700	1.000	
0301338000	3A	Shallot, bulb	0.066071	1.000	1.000	
0302103000	3B	Chive, fresh leaves	2.425000	1.000	1.000	
0302198000	3B	Leek	2.425000	1.000	1.000	
0302239000	3B	Onion, green	2.425000	1.000	1.000	
0302338500	3B	Shallot, fresh leaves	2.425000	1.000	1.000	
0401018000	4A	Arugula	4.076222	1.000	1.000	
0401133000	4A	Cress, garden	4.076222	1.000	1.000	
0401134000	4A	Cress, upland	4.076222	1.000	1.000	
0401248000	4A	Parsley, leaves	13.000000	1.000	1.000	
0402076000	4B	Cardoon	5.000000	1.000	1.000	
0402085000	4B	Celery	5.000000	1.000	1.000	
0402085001	4B	Celery-babyfood	5.000000	1.000	1.000	
0402086000	4B	Celery, juice	5.000000	1.400	1.000	
0402087000	4B	Celtuce	5.000000	1.000	1.000	
0402152000	4B	Fennel, Florence	5.000000	1.000	1.000	
0402322000	4B	Rhubarb	5.000000	1.000	1.000	
0402367000	4B	Swiss chard	5.000000	1.000	1.000	
0501062000	5A	Broccoli, Chinese	4.076222	1.000	1.000	
0502063000	5B	Broccoli raab	4.076222	1.000	1.000	
0502070000	5B	Cabbage, Chinese, bok choy	4.076222	1.000	1.000	
0502117000	5B	Collards	4.076222	1.000	1.000	

0502194000	5B	Kale	4.076222	1.000	1.000
0502229000	5B	Mustard greens	4.076222	1.000	1.000
0502318000	5B	Rape greens	4.076222	1.000	1.000
0502389000	5B	Turnip, greens	4.076222	1.000	1.000
0600347000	6	Soybean, seed	0.375000	1.000	1.000
0600349000	6	Soybean, soy milk	0.375000	1.000	1.000
0600349001	6	Soybean, soy milk-babyfood or in	0.375000	1.000	1.000
0600350000	6	Soybean, oil	0.375000	1.000	1.000
0600350001	6	Soybean, oil-babyfood	0.375000	1.000	1.000
0601043000	6A	Bean, snap, succulent	0.700000	1.000	1.000
0601043001	6A	Bean, snap, succulent-babyfood	0.700000	1.000	1.000
0602031000	6B	Bean, broad, succulent	0.100000	1.000	1.000
0602033000	6B	Bean, cowpea, succulent	0.100000	1.000	1.000
0602037000	6B	Bean, lima, succulent	0.100000	1.000	1.000
0603030000	6C	Bean, black, seed	0.400000	1.000	1.000
0603032000	6C	Bean, broad, seed	0.400000	1.000	1.000
0603034000	6C	Bean, cowpea, seed	0.400000	1.000	1.000
0603035000	6C	Bean, great northern, seed	0.400000	1.000	1.000
0603036000	6C	Bean, kidney, seed	0.400000	1.000	1.000
0603038000	6C	Bean, lima, seed	0.400000	1.000	1.000
0603039000	6C	Bean, mung, seed	0.400000	1.000	1.000
0603040000	6C	Bean, navy, seed	0.400000	1.000	1.000
0603041000	6C	Bean, pink, seed	0.400000	1.000	1.000
0603042000	6C	Bean, pinto, seed	0.400000	1.000	1.000
0603098000	6C	Chickpea, seed	0.400000	1.000	1.000
0603098001	6C	Chickpea, seed-babyfood	0.400000	1.000	1.000
0603099000	6C	Chickpea, flour	0.400000	1.000	1.000
0603348000	6C	Soybean, flour	0.375000	2.200	1.000
0603348001	6C	Soybean, flour-babyfood	0.375000	2.200	1.000
0801374000	8A	Tomatillo	0.789042	1.000	1.000
0801375000	8A	Tomato	0.789042	1.000	1.000
0801375001	8A	Tomato-babyfood	0.789042	1.000	1.000
0801376000	8A	Tomato, paste	0.789042	1.000	1.000
0801376001	8A	Tomato, paste-babyfood	0.789042	1.000	1.000
0801377000	8A	Tomato, puree	0.789042	1.000	1.000
0801377001	8A	Tomato, puree-babyfood	0.789042	1.000	1.000
0801378000	8A	Tomato, dried	0.789042	14.300	1.000
0801378001	8A	Tomato, dried-babyfood	0.789042	14.300	1.000
0801379000	8A	Tomato, juice	0.789042	1.000	1.000
0801380000	8A	Tomato, Tree	0.789042	1.000	1.000
1001106000	10A	Citron	2.764500	1.000	1.000
1001107000	10A	Citrus hybrids	2.764500	1.000	1.000
1001108000	10A	Citrus, oil	1000.	1.200	1.000
1001240000	10A	Orange	2.764500	1.000	1.000
1001241000	10A	Orange, juice	2.764500	1.000	1.000
1001241001	10A	Orange, juice-babyfood	2.764500	1.000	1.000
1001242000	10A	Orange, peel	2.764500	3.300	1.000
1001369000	10A	Tangerine	2.764500	1.000	1.000
1001370000	10A	Tangerine, juice	2.764500	1.000	1.000
1002197000	10B	Kumquat	3.486857	1.000	1.000
1002199000	10B	Lemon	3.486857	1.000	1.000
1002200000	10B	Lemon, juice	3.486857	1.000	1.000
1002200001	10B	Lemon, juice-babyfood	3.486857	1.000	1.000
1002201000	10B	Lemon, peel	3.486857	3.300	1.000
1002206000	10B	Lime	3.486857	1.000	1.000
1002207000	10B	Lime, juice	3.486857	1.000	1.000
1002207001	10B	Lime, juice-babyfood	3.486857	1.000	1.000
1003180000	10C	Grapefruit	2.208000	1.000	1.000
1003181000	10C	Grapefruit, juice	2.208000	1.000	1.000
1003307000	10C	Pummelo	2.208000	1.000	1.000
1201090000	12A	Cherry	1.083333	1.000	1.000
1201090001	12A	Cherry-babyfood	1.083333	1.000	1.000
1201091000	12A	Cherry, juice	1.083333	1.500	1.000
1201091001	12A	Cherry, juice-babyfood	1.083333	1.500	1.000
1202012000	12B	Apricot	1.133333	1.000	1.000
1202012001	12B	Apricot-babyfood	1.133333	1.000	1.000
1202013000	12B	Apricot, dried	1.133333	6.000	1.000

1202014000	12B	Apricot, juice	1.133333	1.300	1.000
1202014001	12B	Apricot, juice-babyfood	1.133333	1.300	1.000
1202230000	12B	Nectarine	1.133333	1.000	1.000
1202260000	12B	Peach	1.133333	1.000	1.000
1202260001	12B	Peach-babyfood	1.133333	1.000	1.000
1202261000	12B	Peach, dried	1.133333	7.000	1.000
1202261001	12B	Peach, dried-babyfood	1.133333	7.000	1.000
1202262000	12B	Peach, juice	1.133333	1.300	1.000
1202262001	12B	Peach, juice-babyfood	1.133333	1.300	1.000
1203285000	12C	Plum	0.192500	1.000	1.000
1203285001	12C	Plum-babyfood	0.192500	1.000	1.000
1203286000	12C	Plum, prune, fresh	0.192500	1.000	1.000
1203286001	12C	Plum, prune, fresh-babyfood	0.192500	1.000	1.000
1203287000	12C	Plum, prune, dried	0.192500	1.000	1.000
1203287001	12C	Plum, prune, dried-babyfood	0.192500	1.000	1.000
1203288000	12C	Plum, prune, juice	0.192500	1.400	1.000
1203288001	12C	Plum, prune, juice-babyfood	0.192500	1.400	1.000
1301055000	13A	Blackberry	1.000000	1.000	1.000
1301056000	13A	Blackberry, juice	1.000000	1.200	1.000
1301056001	13A	Blackberry, juice-babyfood	1.000000	1.200	1.000
1301058000	13A	Boysenberry	1.000000	1.000	1.000
1301208000	13A	Loganberry	1.000000	1.000	1.000
1301320000	13A	Raspberry	1.000000	1.000	1.000
1301320001	13A	Raspberry-babyfood	1.000000	1.000	1.000
1301321000	13A	Raspberry, juice	1.000000	1.200	1.000
1301321001	13A	Raspberry, juice-babyfood	1.000000	1.200	1.000
1302057000	13B	Blueberry	1.000000	1.000	1.000
1302057001	13B	Blueberry-babyfood	1.000000	1.000	1.000
1302136000	13B	Currant	1.000000	1.000	1.000
1302137000	13B	Currant, dried	1.000000	6.500	1.000
1302149000	13B	Elderberry	1.000000	1.000	1.000
1302174000	13B	Gooseberry	1.000000	1.000	1.000
1302191000	13B	Huckleberry	1.000000	1.000	1.000
1307130000	13G	Cranberry	0.318333	1.000	1.000
1307130001	13G	Cranberry-babyfood	0.318333	1.000	1.000
1307131000	13G	Cranberry, dried	0.318333	7.900	1.000
1307132000	13G	Cranberry, juice	0.318333	1.200	1.000
1307132001	13G	Cranberry, juice-babyfood	0.318333	1.200	1.000
1307359000	13G	Strawberry	0.345000	1.000	1.000
1307359001	13G	Strawberry-babyfood	0.345000	1.000	1.000
1307360000	13G	Strawberry, juice	0.345000	1.200	1.000
1307360001	13G	Strawberry, juice-babyfood	0.345000	1.200	1.000
1400003000	14	Almond	0.055417	1.000	1.000
1400003001	14	Almond-babyfood	0.055417	1.000	1.000
1400004000	14	Almond, oil	0.055417	2.800	1.000
1400004001	14	Almond, oil-babyfood	0.055417	2.800	1.000
1400059000	14	Brazil nut	0.100000	1.000	1.000
1400068000	14	Butternut	0.100000	1.000	1.000
1400081000	14	Cashew	0.100000	1.000	1.000
1400092000	14	Chestnut	0.055417	1.000	1.000
1400155000	14	Hazelnut	0.100000	1.000	1.000
1400156000	14	Hazelnut, oil	0.100000	1.800	1.000
1400185000	14	Hickory nut	0.100000	1.000	1.000
1400213000	14	Macadamia nut	0.100000	1.000	1.000
1400269000	14	Pecan	0.100000	1.000	1.000
1400278000	14	Pine nut	0.055417	1.000	1.000
1400282000	14	Pistachio	0.055417	1.000	1.000
1400391000	14	Walnut	0.100000	1.000	1.000
1500025000	15	Barley, pearled barley	0.467589	1.000	1.000
1500025001	15	Barley, pearled barley-babyfood	0.467589	1.000	1.000
1500026000	15	Barley, flour	0.467589	1.000	1.000
1500026001	15	Barley, flour-babyfood	0.467589	1.000	1.000
1500027000	15	Barley, bran	0.467589	1.000	1.000
1500120000	15	Corn, field, flour	0.055417	1.000	1.000
1500120001	15	Corn, field, flour-babyfood	0.055417	1.000	1.000
1500121000	15	Corn, field, meal	0.055417	1.000	1.000
1500121001	15	Corn, field, meal-babyfood	0.055417	1.000	1.000

1500122000	15	Corn, field, bran	0.055417	21.400	1.000
1500123000	15	Corn, field, starch	0.055417	1.000	1.000
1500123001	15	Corn, field, starch-babyfood	0.055417	1.000	1.000
1500124000	15	Corn, field, syrup	0.055417	1.000	1.000
1500124001	15	Corn, field, syrup-babyfood	0.055417	1.000	1.000
1500125000	15	Corn, field, oil	0.055417	1.000	1.000
1500125001	15	Corn, field, oil-babyfood	0.055417	1.000	1.000
1500126000	15	Corn, pop	0.055417	1.000	1.000
1500127000	15	Corn, sweet	0.060000	1.000	1.000
1500127001	15	Corn, sweet-babyfood	0.060000	1.000	1.000
1500231000	15	Oat, bran	0.512867	7.700	1.000
1500232000	15	Oat, flour	0.512867	1.000	1.000
1500232001	15	Oat, flour-babyfood	0.512867	1.000	1.000
1500233000	15	Oat, groats/rolled oats	0.512867	1.000	1.000
1500233001	15	Oat, groats/rolled oats-babyfood	0.512867	1.000	1.000
1500323000	15	Rice, white	7.000000	1.000	1.000
1500323001	15	Rice, white-babyfood	7.000000	1.000	1.000
1500324000	15	Rice, brown	7.000000	1.250	1.000
1500324001	15	Rice, brown-babyfood	7.000000	1.250	1.000
1500325000	15	Rice, flour	7.000000	1.250	1.000
1500325001	15	Rice, flour-babyfood	7.000000	1.250	1.000
1500326000	15	Rice, bran	15.000000	1.000	1.000
1500326001	15	Rice, bran-babyfood	15.000000	1.000	1.000
1500328000	15	Rye, grain	0.070500	1.000	1.000
1500329000	15	Rye, flour	0.070500	1.000	1.000
1500344000	15	Sorghum, grain	3.500000	1.000	1.000
1500345000	15	Sorghum, syrup	3.500000	1.000	1.000
1500381000	15	Triticale, flour	0.070500	1.000	1.000
1500381001	15	Triticale, flour-babyfood	0.070500	1.000	1.000
1500401000	15	Wheat, grain	0.070500	1.000	1.000
1500401001	15	Wheat, grain-babyfood	0.070500	1.000	1.000
1500402000	15	Wheat, flour	0.070500	1.000	1.000
1500402001	15	Wheat, flour-babyfood	0.070500	1.000	1.000
1500403000	15	Wheat, germ	0.070500	1.000	1.000
1500404000	15	Wheat, bran	0.333500	1.000	1.000
1500405000	15	Wild rice	0.500000	1.000	1.000
1901118000	19A	Cilantro, leaves	13.000000	1.000	1.000
1901118001	19A	Cilantro, leaves-babyfood	13.000000	1.000	1.000
1901144000	19A	Dillweed	23.092500	1.000	1.000
1901249000	19A	Parsley, dried leaves	35.000000	1.000	1.000
1901249001	19A	Parsley, dried leaves-babyfood	35.000000	1.000	1.000
1902143000	19B	Dill, seed	2.444513	1.000	1.000
2001163000	20A	Flax seed, oil	0.086906	0.200	1.000
2001319000	20A	Rapeseed, oil	0.086906	0.200	1.000
2001319001	20A	Rapeseed, oil-babyfood	0.086906	0.200	1.000
2001336000	20A	Sesame, seed	0.086906	1.000	1.000
2001336001	20A	Sesame, seed-babyfood	0.086906	1.000	1.000
2001337000	20A	Sesame, oil	0.086906	0.200	1.000
2001337001	20A	Sesame, oil-babyfood	0.086906	0.200	1.000
2003114001	20C	Coconut, oil-babyfood	0.100000	2.900	1.000
2100228000	21	Mushroom	0.100000	1.000	1.000
3100044000	31	Beef, meat	0.050000	1.000	1.000
3100044001	31	Beef, meat-babyfood	0.050000	1.000	1.000
3100045000	31	Beef, meat, dried	0.050000	1.920	1.000
3100046000	31	Beef, meat byproducts	0.050000	1.000	1.000
3100046001	31	Beef, meat byproducts-babyfood	0.050000	1.000	1.000
3100047000	31	Beef, fat	0.050000	1.000	1.000
3100047001	31	Beef, fat-babyfood	0.050000	1.000	1.000
3100048000	31	Beef, kidney	2.000000	1.000	1.000
3100049000	31	Beef, liver	2.000000	1.000	1.000
3100049001	31	Beef, liver-babyfood	2.000000	1.000	1.000
3200169000	32	Goat, meat	0.050000	1.000	1.000
3200170000	32	Goat, meat byproducts	0.050000	1.000	1.000
3200171000	32	Goat, fat	0.050000	1.000	1.000
3200172000	32	Goat, kidney	2.000000	1.000	1.000
3200173000	32	Goat, liver	2.000000	1.000	1.000
3300189000	33	Horse, meat	0.050000	1.000	1.000

3400294000	34	Pork, kidney	0.200000	1.000	1.000
3400295000	34	Pork, liver	0.200000	1.000	1.000
3500339000	35	Sheep, meat	0.050000	1.000	1.000
3500339001	35	Sheep, meat-babyfood	0.050000	1.000	1.000
3500340000	35	Sheep, meat byproducts	0.050000	1.000	1.000
3500341000	35	Sheep, fat	0.050000	1.000	1.000
3500341001	35	Sheep, fat-babyfood	0.050000	1.000	1.000
3500342000	35	Sheep, kidney	2.000000	1.000	1.000
3500343000	35	Sheep, liver	2.000000	1.000	1.000
3600222000	36	Milk, fat	0.050000	1.000	1.000
3600222001	36	Milk, fat-baby food/infant formu	0.050000	1.000	1.000
3600223000	36	Milk, nonfat solids	0.050000	1.000	1.000
3600223001	36	Milk, nonfat solids-baby food/in	0.050000	1.000	1.000
3600224000	36	Milk, water	0.050000	1.000	1.000
3600224001	36	Milk, water-babyfood/infant form	0.050000	1.000	1.000
3600225001	36	Milk, sugar (lactose)-baby food/	0.050000	1.000	1.000
3800221000	38	Meat, game	0.050000	1.000	1.000
3900312000	39	Rabbit, meat	0.050000	1.000	1.000
8601000000	86A	Water, direct, all sources	0.035100	1.000	1.000
8602000000	86B	Water, indirect, all sources	0.035100	1.000	1.000
9500020000	O	Avocado	0.078000	1.000	1.000
9500023000	O	Banana	0.200000	1.000	1.000
9500023001	O	Banana-babyfood	0.200000	1.000	1.000
9500024000	O	Banana, dried	0.200000	4.800	1.000
9500024001	O	Banana, dried-babyfood	0.200000	4.800	1.000
9500111000	O	Coconut, meat	0.100000	2.100	1.000
9500111001	O	Coconut, meat-babyfood	0.100000	2.100	1.000
9500112000	O	Coconut, dried	0.100000	2.100	1.000
9500113000	O	Coconut, milk	0.100000	4.000	1.000
9500114000	O	Coconut, oil	0.100000	2.900	1.000
9500263000	O	Peanut	0.200000	1.000	1.000
9500264000	O	Peanut, butter	0.200000	1.200	1.000
9500265000	O	Peanut, oil	0.200000	1.000	1.000
9500275000	O	Peppermint	10.000000	1.000	1.000
9500276000	O	Peppermint, oil	10.000000	1.000	1.000
9500279000	O	Pineapple	1.111382	1.000	1.000
9500279001	O	Pineapple-babyfood	1.111382	1.000	1.000
9500280000	O	Pineapple, dried	1.111382	7.300	1.000
9500281000	O	Pineapple, juice	1.111382	1.000	1.000
9500281001	O	Pineapple, juice-babyfood	1.111382	1.000	1.000
9500283000	O	Plantain	0.200000	1.000	1.000
9500284000	O	Plantain, dried	0.200000	4.800	1.000
9500311000	O	Quinoa, grain	0.467589	1.000	1.000
9500352000	O	Spearmint	10.000000	1.000	1.000
9500353000	O	Spearmint, oil	10.000000	1.000	1.000
9500362000	O	Sugarcane, sugar	0.115238	1.000	1.000
9500362001	O	Sugarcane, sugar-babyfood	0.115238	1.000	1.000
9500363000	O	Sugarcane, molasses	0.115238	1.000	1.000
9500363001	O	Sugarcane, molasses-babyfood	0.115238	1.000	1.000
9500372000	O	Tea, dried	4.000000	8.300	1.000
9500373000	O	Tea, instant	4.000000	8.300	1.000
9500398000	O	Watercress	2.087667	1.000	1.000

Attachment 6. Chronic Food and Water Results File

```
US EPA                                                          Ver. 3.16, 03-08-d
DEEM-FCID Chronic analysis for PROPICONAZOLE               NHANES 2003-2008 2-day
Residue file name: C:\Users\JCamp\OneDrive - Environmental Protection Agency
(EPA)\Chemicals\Propiconazole\Reg Review 2019-2020\Dietary Memo\Propiconazole_Registration
Review_Chronic.R08
                                                 Adjustment factor #2 NOT used.
Analysis Date 09-10-2020/09:02:10     Residue file dated: 09-10-2020/08:39:29
Reference dose (RfD, Chronic) = .18 mg/kg bw/day
COMMENT 1: Registration Review
================================================================================
                    Total exposure by population subgroup
--------------------------------------------------------------------------------
```

Population Subgroup	Total Exposure mg/kg body wt/day	Total Exposure Percent of Rfd
Total US Population	**0.008993**	**5.0%**
Hispanic	0.012086	6.7%
Non-Hisp-White	0.007912	4.4%
Non-Hisp-Black	0.009663	5.4%
Non-Hisp-Other	0.013822	7.7%
Nursing Infants	0.009903	5.5%
Non-Nursing Infants	0.019779	11.0%
Female 13+ PREG	0.009632	5.4%
Children 1-6	0.023161	12.9%
Children 7-12	0.010903	6.1%
Male 13-19	0.007644	4.2%
Female 13-19/NP	0.006791	3.8%
Male 20+	0.007627	4.2%
Female 20+/NP	0.006820	3.8%
Seniors 55+	0.006714	3.7%
All Infants	**0.016730**	**9.3%**
Female 13-50	0.006947	3.9%
Children 1-2	**0.027730**	**15.4%**
Children 3-5	**0.022239**	**12.4%**
Children 6-12	**0.011678**	**6.5%**
Youth 13-19	**0.007202**	**4.0%**
Adults 20-49	**0.007519**	**4.2%**
Adults 50-99	**0.006882**	**3.8%**
Female 13-49	**0.006910**	**3.8%**